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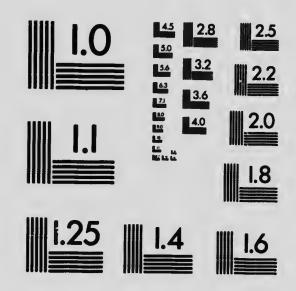
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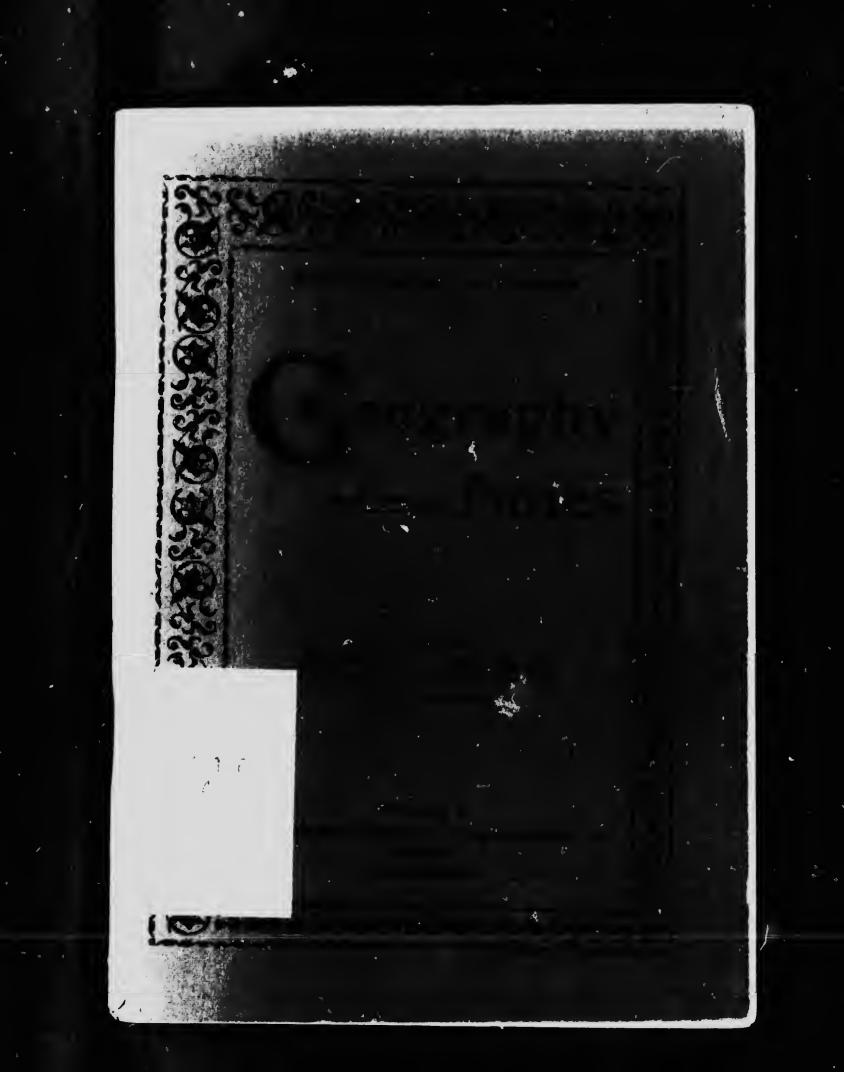
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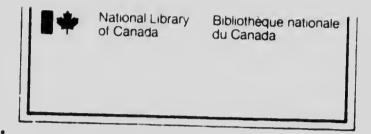
Geography Notes

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PREFACE.

in preparing this little work on Entrance Geography, we have endeavored to treat the subject in such an order as will develop the observing and reasoning faculties, as well as the memory.

We should study Geography that we may become acquainted with the earth, the habitation of man, that we may know the advantages of the climate and the natural resources of each part of its suface, and the way man is rofiting by these natural advantages. The subject has, therefore, been presented in the following order:

- (1) The earth as a part of the solar system.
- (2) The surface of the earth and its natural divisions of land and water.
 - (a) General—The definitions taken up topically.
- (b) Particular—The position, surface, drainage and coast-features of the continents.
- (3) The wealth of land and sea which interests man, and how man is taking advantage of this for self, society and mankind. This takes up the countries, forms of government, commercial centres, products, exports, imports, and commercial routes.

The matter has been carefully selected and arranged, and the matters of most importance have been set up in large and heavy-faced type. The time usually occupied in copying notes can now be saved; the energy usually spent in this way can be more profitably used; and in this way, both teacher and pupil will be assisted in covering the work prescribed for us by the Education Department.

O. G. F.

FRASER'S ENTRANCE GEOGRAPHY.

CONTENTS.

Drofess	
Preface 3	Mineral Products of Com-
Contents4	merce32
The Universe 5	The Surface of the Earth.
The Heavenly Bodies	
The Solar System 7	Drainage Features35
The Earth 8	Ocean Fostures35
Daily Motion of Earth. 9	Ocean Features38
Yearly Motion of Earth 10	Political Features41
Day and Night 11	Map Geography:
The Seasons	Physical Features of
Imaginary Lines 13	World43
Latitude and Longitude. 14	North America45
Direction15	Canada54
The Moon 16	Ontario 65
Eclinees	British Columbia71
Eclipses	Manitoba72
The Tides	Quebec73
Ocean Currents19	New Brunswick74
The Atmosphere20	Nova Scotia. 75
Winds	Prince Edward Island, 76
Clouds and Moisture22	United States 77
Climate23	South America81
The Light Zones24	Europe86
Heat and Product Zones.25	Great Britain and
Formation of Soil26	Ireland92
Fertile Soil and Deserts 27	England and Wales 93
Commerce and Trans-	Ireland94
portation28	Scotland. 95
The Three Kingdoms 20	The British Empire
Animal Products of Com-	The British Empire96
merce 20	Asia 100
Vegetable Products of	Africa105
Commerce31	Oceania110
	Australia111

THE UNIVERSE.

The Universe is that great system of material things which, being the work of the Creator, is called Creation. It consists of all the heavenly bodies and the material things—animal, vegetable, or mineral—which are associated with each. During the day, these heavenly orbs are hidden to our view, because the light of our sun is so much greater to us than theirs; but in the darkness of the night these luminous realms of space shine out in great beauty giving us some idea of their countless number.

Each orb is in motion, revolving in its axis like a top and also through space in an orbit of its own; but they are placed at such great distances from one another and are kept in their own courses by the marvellous forces (laws) of the Almighty that they never clash. Each is an ellipse controlled by two forces acting together—at the same time—the one impelling the orb forward, and the other drawing it towards the centre of its orbit.

These heavenly bodies are designated by different names. When their shape is considered, they are called orbs, globes, or spheres, because they are ball-like. When thought of as the abode of people, they are called worlds; and each one has been given a proper name to distinguish t from the other heavenly bodies. When their relation to each other is considered, they have been divided into six general clares—fixed stars, planets, satellites, asteroids, meteors and emets.

I. A FIXED STAR is a glowing heavenly body which shines with its own light and is supposed to be, like our sun, the centre of a system of worlds which revolve around it.

The fixed stars were so named by the ancients because they seemed to keep the same relative position in the firmament.

2. A PLANET is a heavenly body forming part of our solar system and revolving around our sun. The planets were so named by the ancients because their movement in the firmament seemed to be so irregular. They are cooled bodies revolving around a luminous body—a fixed star—and they shine with a borrowed light, reflecting the light of the sun. They do not twinkle like the fixed stars.

Other fixed stars beside our sun are supposed to have planets revolving around them; but on account of their great distance from us, and their relative smallness, we cannot see them even with our most powerful telescopes.

- 3. An Asteroid, or Planetoid, is any one of a great number of small planets whose orbits lie between the orbits of Mars and Jupiter. They are of various shapes and sizes, and may be ruins of a great planet whose orbit was here.
- 4. A METEOR is a shooting or falling star—a luminous heavenly body appearing for a few moments in the sky and then disappearing. At certain parts of the earth's orbit we pass through showers of these meteors. These showers of meteors are named from the constellation from which they seem to fall.
- 5. A COMET is a luminous heavenly body generally consisting of a head or nucleus and a long shining tail. At one part of its orbit it is near the sun; at the other part it is very far away from it. Some of them take many years to return.
- 6. A CONSTELLATION is a number of fixed stars which, for easy identification have been grouped within the limits of an imaginary figure, which is supposed to be traced upon the vault of heaven. Modern astronomers recognize eighty-three constellations among which we might mention the twelve signs of the Zodiac.

THE SOLAR SYSTEM.

The Universe is divided into Systems, each composed of a fixed star, or sun, and a number of heavenly bodies revolving around it, and forming a family of worlds.

THE SOLAR SYSTEM is that part of the universe which is composed of the sun and the planets and their satellites which revolve around him and from him derive their heat and light.

The Sun, the "King of Day," is a fixed star, the brightest object in our heavens. He is 865,000 miles in diameter; he rotates on his axis once in 29 days 5 hours and revolves around some great central star in an orbit of his own.

We depend on him for light and darkness and the change of our seasons. Heat and cold, winds, clouds, rains and rivers are his works; and all life, animal or vegetable, depends on him.

The Planets of the Solar System.

Others, as yet undiscovered, may exist.

Those of other systems are too far away to be seen by us.

Name	Diameter	Distance	A Day A Year
of Planet	in 1000 mi.	the	in in Satellite
Vulcan—	This planet	s too near	hrs., min. days the sun to be seen by us.
Mercury	3.200	35-55*	the sun to be seen by us.
Venus	7.660	66-67*	$24 \ 5\frac{1}{2} \ 87 + \dots$
Earth	7.916	91-95*	21 21 224 +
Mars	4.2		$24\ 0\ 365+\ 1$
Asteroids-		141†	24 37 687 2
Jupiter	85.	250 of th	ese have been named.
Saturn	00.	4837	9 55 12 yrs. 4
Uranus	68-74	883†	10 15 291 " 8
Neptune	31.	1800	84 " 4
	37. ailion and ar	2800	164 " 1

*Perihilion and aphelion in millions of miles.

†Mean distance from the sun.

THE EARTH.

The Earth is a planet—a heavenly body revolving around the sun.

Shape—It is nearly round like a ball—flattened at the poles.

Proofs that the earth is round!

- 1. The masts of ships, approaching from any direction. are seen first, and the masts of departing ships are seen last.
- 2. On home-bound ships, the tops of mountains are seen first, while on out-bound ships, the tops of high objects are seen last.
- 3. By ascending the mast, one's outlook is increased.
- 4. The shadow of the earth on the moon, as seen during an eclipse of the moon, is always round.
- 5. The sun rises earlier to those east of us, and later, to those west of us.
- 6. As we travel southward, new constellations rise above the southern horizon while others seem to sink beneath the northern horizon.
- 7. By continuing in the same direction—any direction—men have travelled around the world.
- 8. The other heavenly bodies are seen to be spherical.

Size—The Diameter is about 8,000 miles.
The Circumference is about 25,000 miles.

The Zenith is the point in the heavens directly overhead.

The Nadir is the point in the heavens directly under foot.

The Horizon is the circle where the earth and sky appear to meet. It is the circle of vision and may be increased by taking a higher position.

The Antipodes are those living on the surface of the earth directly opposite to us. Their seasons and days are similar to ours but at opposite times.

A Hemisphere is half a sphere—Northern or Southern: Eastern or Western

THE DAILY MOTION OF THE EARTH.

The Daily, or Diurnal, Motion of the earth is its rotation on its axis towards the east. It is performed in 24 hours. It produces day and night.

d

The Axis of the Earth is the imaginary line passing through the centre of the earth about which the earth turns.

The Poles—North and South—are the points at the ends of the axis of the earth.

The Earth receives her light from the sun—the "King of Day." As the earth is a sphere, the sunlight can fall on only half of her surface at one time; but as the earth rotates on her axis, each part of her surface is turned to the sunlight and produces the succession of daylight and darkness—day and night.

We say the earth has this daily motion (1) because the sun the moon and the stars appear to move round us once a day. If the earth does not rotate, the sun must move at the rate of 600,000,000 million miles a day—25 million miles an hour—and this is slow compared with the speed at which some of the fixed stars would need to travel to complete the daily circuit; (2) because if the sun revolves around the earth, the larger object revolves around the smaller, which is not seen elsewhere in nature; (3) because the sun rises earlier on places east of us and later on places west of us.

The Circle of Illumination is the line dividing the part of the surface of the earth in light from that part in darkness. It is constantly changing position.

A Solar day is 24 hours—the time it takes the earth to rotate once on its axis. This period is divided into day and night.

Noon is the moment when the sun shines directly south of us, that is, on our meridian.

THE YEARLY MOTION OF THE EARTH.

The Yearly or Annual Motion of the earth is its revolution around the sun. It is performed in about 3651 days.

The Orbit of the Fasth is its math in the last of the last is its math in the last of the last of

The Orbit of the Earth is its path in the heavens during its annual motion. It is an ellipse—the sun in one centre.

The Perihilion is that part of the earth's orbit which is nearest the sun—91,000,000 miles.

The Aphelion is that part of the earth's orbit which is farthest away from the sun—95,000,000 miles.

The Plane of the Earth's Orbit is the space bounded by the earth in its yearly circuit around the sun.

The Ecliptic is the apparent course of the sun among the stars as the earth moves in its orbit around the sun.

As the earth proceeds in its circuit, it is noticed in the Northern Hemisphere, that each day the sun at noonday rises higher above the horizon till he shines vertically on places 23½ degrees north of the equator—on the Tropic of Cancer. He then seems to turn and recede towards the south, till he shines vertically over places 23½ degrees south of the equator—over the Tropic of Capricorn.

When the sun shines vertically over the Tropic of Cancer, the circle of illumination extends 23½ degrees beyond the North Pole, and indicates the position of the Arctic Circle. It also falls 23½ 'agrees short of the South Pole and indicates the position of the Antarctic Circle. When the sun shines vertically over the Tropic of Capricorn these conditions are reversed.

These changes in the angle at which the sun's rays fall upon the different parts of the earth's surface are caused by

(1) the earth moving in her orbit.

(2) the axis of the earth inclining 66½° to the plane of its orbit.

(3) the axis of the earth always pointing in the same direction.

DAY AND NIGHT.

The relative length of day and night varies very much according to (1) the time of the year, and (2) the distance of the place from the equator.

The Equinor is when the day and night are equal all over the world. The sun then shines vertically on the equator and illuminates the earth from pole to pole.

The Vernal Equinox occurs on March 21st.

The Autumnal Equinox occurs on September 21st.

As the sun ascends towards the Tropic of Cancer, the daylight in the Northern Hemisphere becomes gradually longer than the night. The farther north, the greater is the difference, till, within the Arctic Circle, the sun shines, for a time, during the whole 24 hours. During this time, the daylight in the Southern Hemisphere becomes gradually shorter than the night. The farther south, the greater is the difference, till within the Antarctic Circle there is darkness, for a time, during the whole 24 hours.

Then the sun recedes towards the south, and the length of day and night slowly becomes more equal, till the sun shines vertically over the equator, and we again have equal day and night. Then crossing the equator, the sun descends towards the Tropic of Capricorn, and the conditions in each hemisphere are reversed.

Our Summer Solstice is our longest day—about June 21st when the sun shines vertically over the Tropic of Cancer. Our Winter Solstice is our shortest day-about December. 21st-when the sun shines over the Tropic of Capri-

By drawing a diagram of the earth, showing the position of the circle of illumination at any period, the relative length of the day and night of any place is shown by drawing its parallel of latitude. This shows the parts in light and darkness. It does not vary at the equator.

THE SEASONS.

The Earth depends upon the sun for heat; and the influence the sun exerts upon any part of the earth will depend upon how nearly vertically his rays fall upon the given place. This is shown daily by the relative heat of the sun-beams at morning, noon and evening.

A year is about 365½ days—the time it takes the earth to make one revolution around the sun. In practice, each fourth year, except the century years, is called a Leap Year of 366 days; the others, except each fourth century year, are called Common Years of 365 days.

In the Temperate Zone the year is divided into four characteristic periods called Spring, Summer, Autumn and Winter, differing in their temperature and amount of rainfall or snowfall, but occurring with that regularity which we find so constantly in Nature. These periods are called the seasons.

These seasons are brought about by our changing our posit: n relative to the sun. (1) the earth revolves around the sun, (2) the axis always points in the some direction, and (3) it inclines to the plane of the orbit at an angle of 66½ degrees. Thus the angle at which the sunbeams fall upon the different parts of the earth is constantly but regularly changing and the result is a constant succession of seasons, each modified by the peculiar conditions surrounding the region. In the Torrid Zone the year is modified into three seasons—the warm, the dry and the rainy.

Spring is the season for seedtime when the heat and moisture of the earth is suited to the sprouting of seeds.

Summer is the season for maturing vegetation. It is the warmest of the seasons.

Autumn is the season for gathering the matured vegetation into the storehouse.

Winter is the season for rest in the vegetable world.

IMAGINARY LINES.

Any line passing directly around the earth is called a circle.

A Circle is divided into 360 equal parts called degrees.

A Great Circle is one whose plane passes through the centre of the earth.

A Small, or Lesser Circle is one whose plane does not pass through the centre of the earth.

The Equator is the imaginary line passing around the earth at an equal distance from the Poles.

Parallels of Latitude are imaginary lines passing around the earth parallel to the equator. Four of these are very important, dividing the earth into five zones.

The Tropic of Cancer is the imaginary line passing around the earth 23½ degrees north of the equator and parallel to it. Over this line, the sun shines vertically on June 21st.

The Tropic of Capricorn is the imaginary line passing around the earth 231 degrees south of the equator and parallel to it. Over this line, the sun shines vertically on December 21st.

The Arctic Circle is the imaginary line passing around the earth 231 degrees from the North Pole and parallel to the equator. This line is indicated by the circle of illumination on June 21st, and December 21st.

The Antarctic Circle is the imaginary line passing around the earth 23½ degrees from the South Pole and parallel to the equator. This line is indicated by the circle of illumination on December 21st.

Meridian Circles pass around the earth from Pole to Pole and cut the equator at right angles.

A Meridian Line is one-half of a meridian circle, and reaches from Pole to Pole.

A First, or Prime Meridian is the meridian passing through some selected place from which longitude is reckoned. Our first meridian is that of Greenwich.

LATITUDE AND LONGITUDE.

Latitude is the distance of a place from the equator. It is usually given in degrees, minutes and seconds. The "High Latitudes" are the Polar Regions.

The Latitude of a place can be determined by finding the altitude of the North Star; or by observing the altitude of the sun. This varies according to the season.

The Greatest Latitude possible is 90°—north or south. This is at the poles.

Degrees of Latitude are equal parts of equal circles.

Longitude is the distance of a place east or west of the First Meridian—usually given in degrees, minutes and seconds.

Our First Meridian passes through the Royal Observatory at Greenwich, England. Other nations choose other first meridians, such as that of Washington, Paris, or Berlin.

The Greatest Longitude possible is 180°—east or west.

Degrees of Longitude are not equal—the circles are unequal.

The Longitude of any place can be determined by comparing its time with that of Greenwich and allowing 15° for each hour of difference—the rate at which the earth rotates. If the longitude of any two places be known, the difference in their time can easily be determined.

Standard Time is the system of uniform time which has been adopted by the 1. Iways of Canada and the United States. The continent is divided into four sections, each 15° wide, and all the trains of each section are run by the time of its central meridian. These times are named: Eastern Time (75°), Central Time (90°), Mountain Time (105°), and Pacific Time (120°). The time of each section differs, by exactly one hour, from that of the adjacent sections.

DIRECTION.

That we may refer conveniently to the position of objects on the surface of the earth, men have chosen a number of directions which are constant all over the world. These are North, South, East, and West—the Cardinal points of the Compass—and also the intermediate points northeast, north-west, south-east and south-west.

We can know these directions :-

1. By the Sun—It rises in the east and sets in the west.
This is absolutely true only at the equinoxes.

At noon, it is straight south of us who live in the Northern Hemisphere.

2. By the Moon-It rises in the east and sets in the west.

3. By the North Star—It is visible from all parts north of the equator.

4. By the trees of the forest—The moss grows on the north—the shady side of the trunk.

5. By the Mariners Compass—an instrument containing a magnetized needle which when balanced and allowed to swing freely, always points to the pole. It is used by sailors in steering a vessel out upon the trackless ocean where, at times, sun, moon and stars are invisible.

A MAP is a chart or plan of a portion of the earth drawn to a regular scale, showing the boundaries of the countries and the Relative Position of the mountains, rivers, seas, oceans and islands to one another, as well as the cities and towns; and by means of parallels of latitude and meridian lines, indicating the Absolute Position of the district on the surface of the earth, and its direction from every other part of the earth's surface. These lines are curved to represent the curvature of the surface of the earth.

A MAP OF THE HEAVENS represents the relative position of the stars as they appear in the sky.

THE MOON.

The Moon is the satellite of the Earth. It is noted heavenly body revolving around a planet. She has been called "The Queen of the Night," and, like the planets, her light is a reflection of the light of the sun. Her diameter is about 2,000 miles; her circumference, about 7,000 miles.

The Moon has two motions. It rotates on its axis once a month and revolves around the earth in an orbit of its own. This orbit is an ellipse; the earth is in one centre. This orbit is completed in 27 days, but it takes the moon 29 days—a lunar month—to come into the same relative position with the sun and the earth. The moon moves in its orbit, towards the east; but as the earth rotates on its axis towards the east the moon appears to pass from east to west daily.

Only one-half of the surface of the moon is illuminated at any given time. As the moon proceeds in its orbit and its relative position to the sun and the earth changes, it seems to grow and then to decrease, as it turns more of its bright side to us and then away from us. This waxing and waning of the moon is called "The Phases of the Moon."

"The Phases of the Moon" are the changing appearances of the moon as it continues in its orbit around the earth, turning more, all, and then less of its illuminated surface towards us. The principal phases of the moon are (1) the New Moon, (2) the First Quarter, (3) the Full Moon, and (4) the Last Quarter. The Crescent is the waxing or growing moon—the New Moon. The Full Moon is that phase of the moon which shows us the full circle of illumination. The sun and moon are then on opposite sides of the earth, and almost in a straight line.

The plane of the moon's orbit is not parallel to the plane of the orbit of the earth.

ECLIPSES.

AN ECLIPSE is the obscuring or darkening of the light of a heavenly body by some object other than a cloud. The term is applied specially to the darkening of the light of the sun and the moon which occurs at certain times in the moon's circuit. It may be total or partial.

A LUNAR ECLIPSE is the obscuring of the light of the moon, caused by the moon's passing through the shadow of the earth. It occurs only at full moon, when the sun, the earth and the moon are in a straight line. If the plane of the moon's orbit were parallel to the plane of the orbit of the earth, there would be an eclipse of sun and of the moon every month.

A Solar Eclipse is the obscuring of the light of the sun caused by the moon's passing between the earth and the sun and shutting out its light. It occurs only at new moon, when the sun, the moon, and the earth are in a straight line. When a Partial Eclipse of the sun occurs, the centre of the moon is not in the same straight line with the centre of the sun and the earth and only part of the sun's disc is ob-A Total, or an Annular Eclipse of the sun occurs when the centres—of the sun, the moon and the earth are in a straight line. If the moon is in perigee, it will appear large enough to hide the whole disc of the sun and the eclipse will be total; but if the moon is in apogee it will appear smaller than the disc of the sun and a ring of light showing the corona of the sun will appear for a moment at the time of its greatest obscuration and produce an Annular Eclipse of the sun.

A Transit is the passing of a planet across the face of the sun. Only those planets which are nearer to the sun than we are can thus pass across the face of the sun.

An Occult ition is the passing of a star behind the moon,

THE TIDES.

The Tide is the rise and fall of the waters of the ocean, as seen on the land. It is caused by the attraction of the moon and the sun. On account of the greater distance of the sun, its influence is the less.

The Flood Tide is the rising, or advancing tide.

· The E'b Tide is the falling, or receding tide.

The High Tide is when the water has reached its highest. This occurs every 12 hours 25 minutes—after the moon is on the meridian of the place and after it is on the meridian of the antipodes of the place.

The Low Tide is when the water has reached its lowest.

The Spring Tide is the extra high tide which occurs at new moon and at full moon. The sun and moon are then acting in the same straight line, and the extra high tide is the result of their combined attraction.

The Neap Tide is the comparatively feeble tide which occurs at the first, and third quarters of the moon. The sun and moon are then acting at right angles to each other, and negativing each other's influence.

In the ocean, the tidal wave follows the moon.

The height of the tide varies (1) according to the phase of the moon, (2) the position of the place on the ocean or on the shore, (3) whether on the east or west coast of the continent. The Tides on the Bay of Fundy are perhaps the highest in the world, sometimes rising to a height of about seventy feet. The great westerly movement of the water is here forced into a confined space by the closed nature of the inlet, and the tide rises very fast, reaching its highest at the head of the bay.

A Bore is a high tidal wave as it enters the mouth of a river and meets the opposing current. (Ganges).

OCEAN CURRENTS.

An Ocean Current is a portion of the water of the ocean moving river-like in a certain direction called its set, and at a regular rate, called its drift.

Ocean currents are caused by temperature, or by winds, or by both, according to different theories.

(1) The cold waters of the poles flow southward to take the place of the water evaporated from the tropical seas, and not having the speed of the equatorial regions, they lag behind and flow in a westerly direction. (2) The warmer, light waters of the tropical regions flow towards the poles, and the colder, heavier polar waters flow in to take their place. (3) The trade winds which blow constantly in the same direction give a westerly motion to the surface waters at the equator, and this current is deflected to north and south by the land which intervenes.

The most important ocean currents are:

THE EQUATORIAL CURRENTS in Atlantic, Pacific, and Indian Oceans. All flow westward, and are deflected by the continents of South America, Australia, and Africa. The deflected currents are THE GULF STREAM, THE BRAZIL CURRENT, THE JAPAN CURRENT, THE AUSTRALIAN CURRENT and THE MOZAMBIQUE CURRENT.

The LABRADOR, PERUVIAN and AFRICAN currents are cold, and there is also a regular movement of the polar waters along the floor of the ocean, towards the equator.

These currents prevent stagnation of the ocean waters; they equalize the temperature and influence the vegetation of tropical and polar regions; they wear away the coast and change the form of continents; they transport the rocks and soil adhering to icebergs and form such banks as those off the coast of Newfoundland; they distribute animal and vegetable forms of life and assist in navigation.

THE ATMOSPHERE.

The Atmosphere is the envelope of air which surroun s the earth. It is supposed to be about 50 miles thick. At the sea-level the air is the densest as the pressure of the column of air resting on any part is there the greatest. But in higher altitudes, the pressure is less, and at an altitude of four or five miles, the air is too rare and cold to sustain life.

The greater part of the air is nitrogen; but it also contains oxygen to sustain animal life, and carbonic acid gas to sustain vegetable life; for animals and vegetables are dependent upon each other, the one exhales what the other needs. The air also contains moisture which the heat of the sun has evaporated from land and sea.

When air is heated, it becomes lighter, and rises, and cooler air rushes in to take its place. This air in motion is called a wind. On account of the unequal heating of the air at different parts of the earth's surface, the air is in constant motion, and each movement is named according to its peculiarity. A wind is said to be gentle, moderate, brisk, fresh, stiff, strong or hard according to its speed. A Zephyr is a gentle west wind; a Breeze is a brisk wind; a Gale is a strong wind; a Tempest is a violent wind; and a Storm is continuous, usually accompanied by rain and lightning.

A Draft is a confined current of air passing through some opening; a Gust is a sudden wind of short duration; a Bluster is a noisy wind; a Blast is a destructive wind; and a Squall is a sudden, violent storm. If the wind is circling in its motion it is called an eddy, a whirlwind, a tornado or a cyclone, while the sand-pillar of the desert and the water-spout of the ocean are the products of such winds.

WINDS.

During the day, the land becomes heated much more quickly than the sea. This causes the air resting on the land to become warm, to expand and rise, and the cool air above the sea moves in to take its place. But during the night the water becomes cool less quickly than the land, so that the air above the warm sea rises, and the cool air from the land moves out to take its place. This gives rise to the land and sea breezes which prevail in ordinary weather.

Winds have the characteristics of the regions from which they blow. A wind from the north will be cold, from the south, warm, and from the desert, dry. As it passes over a mountain range, it will be robbed of its moisture; but when coming from the ocean, it will be laden with vapor and will be warm or cold according to the nature of the current over which it passes.

Winds are classified according to when they prevail into constant, variable, or periodic winds and according to their location into such classes as land and sea breezes, trade winds, etc. At certain parts of the world, and at certain seasons of the year, special winds prevail that have become The Simoon is a hot, dry, sand-laden, pestilential desert-wind which occurs in India and Arabia. Sirocco is a hot, dry, sand-laden, desert-wind which occurs in Algeria and the Mediterranean Sea. The Harmattan is a hot, dry, sand-laden, desert-wind which prevails from December to February on the west coast of Africa. The Monsoon is a north-east winter-wind which prevails on the Pacific coast of Asia. The Typhoon is a violent wind, with cyclonic power, which occurs in the China seas. Hurricanes are violent winds which occur in the Gulf of Mexico; and the Chinook winds are warm, dry winds, peculiar to the eastern slope of the Rockies in Alberta and the Northern United States.

CLOUDS AND MOISTURE.

A PHENOMENON is any wonderful appearance in nature which is the result of natural laws, as wind, rain, lightning, etc.

All air contains moisture; but, under varying conditions, it assumes different forms. If the air is warm enough, this moisture remains invisible; but if it becomes chilled by meeting a cold current of air, or by rising to the higher, colder regions of the atmosphere, as in ascending the side of a mountain, or by coming in contact with a cold part of 'he earth—sea or land, mountain or valley—it becomes visible as a mass of vapor, or water-dust. A CLOUD is a mass of water-dust high in the sky. A HAZE or MIST is a mass of vapor at or near the surface of the earth. If very dense it is called a Fog. Such fogs prevail off the coast of Newfoundland, and are very dangerous to navigation.

When the particles of vapor become sufficiently chilled, they combine into water-drops and fall to the earth as RAIN, clearing the air, refreshing the plants, fertilizing the soil, wearing away the rocks to form soil, and combining to form rivers. If the vapor congeals, it forms into crystals called SNOW. Snow crystals are of many shapes according to the temperature at which they are formed. As they fall, they form a covering for the earth, a kind of blanket to protect the soil from the coldest temperatures of the winter weather.

SLEET is frozen rain driven by a strong wind.

HAIL OR HAILSTONES are pellets of ice falling from the sky. They are of various shapes and sizes but usually each contains a little mass of snow at its centre.

DEW is condensed vapor deposited during the night on the surface of objects that cool quickly. HOAR FROST is frozen dew.

CLIMATE.

The Weather of a place is the condition of its atmosphere, at any particular time, as regards heat or cold, wind or calm, sunshine or rain, dryness or moisture.

The Climate of a place is the characteristic condition of its weather from year to year. It may be described as dry or moist, warm or cold, regular or changeable.

The Climate of a place depends primarily on :-

a. Its Latitude—and the directness of the sun's rays.

b. Its Altitude—and the rarity of the atmosphere.

The Climate of a place is modified by:

1. The direction of the prevailing winds—warm or cold, according as they come from warm or cold regions

2. The presence of large bodies of water keeping the temperature more equable and increasing the rainfall.

The presence of large bodies of land—decreasing the amount of rainfall and making the temperature more variable—colder in winter and warmer in summer —warmer in the day and colder at night.

4. The presence of large forests—keeping the temperature equable, attracting rain, and holding moisture.

5. The presence of ocean currents—warm or cold—influencing the atmosphere as to temperature and moisture.

6. The presence of Mountain ranges—giving slope to the country and exposing it to warm or cold. dry or humid influences—affecting the rainfall by condensing the moisture in the atmosphere—forming a windbreak and deciding the direction and nature of the prevailing winds.

7. Its position at the east or west side of the continent.

These climatic conditions decide the fertility of the son, the classes of vegetation, the kinds of animals, the occupations of the people, and largely, the products of the region.

THE LIGHT ZONES.

A Zone is a belt passing around the earth and is supposed to have a climate peculiar to itself and favorable to certain forms of life—animal and vegetable.

The Earth might be divided into zones according to :-

- 1. The Elevation above the sea-level—the mountain side.
- 2. The-Depression below the sea-level—the ocean bed.
- 3. The Classes of Vegetation found—the Product Zones.
- 4. The Distance from the Equator.
- 5. The Mean Annual Temperature—of summer and winter. In all of these the mean annual temperature will is similar and will depend on the influence of the sun's rays. The Earth is usually divided into five Light Zones:—
- 1. The Torrid Zone—the hot belt between the Tropics upon which the sun is shining vertically at all times of the year. where the temperature is high—the air humid—the vegetation rank—the region of spices, sugar, coffee, fine fruits and fine woods. Width: 47°.
- 2. The North Frigid Zone—that frozen region of the earth within the Arctic Circle where winter prevails all year—where there is little vegetation but mosses and lichens, and where the fur-bearing and oil-producing animals live. Width: 47°.
- 3. The North Temperate Zone—the belt between the Tropic of Cancer and the Arctic Circle—upon which the sun never shines vertically—where the climate is more moderate and more variable—where the products are more numerous—where the hardier fruits, grains and trees mature and the higher forms of intellectual man dwell. Width: 43°.
- 4. The South Temperate Zone—that belt between the Tropic of Cancer and the Antarctic Circle—similar to, but colder than the North Temperate Zone.
- 5. The South Frigid Zone—the region within the Antarctic Circle—still colder than the North Frigid Zone.

HEAT AND PRODUCT ZONES.

The Northern Hemisphere has been divided into seven cones according to the characteristic vegetation of each. Plant life depends on a suitable soil, sufficient moisture and proper temperature; and the vegetation of a district will be a record of the "survival of the fittest," classes of plants that have congenial homes or that have adapted themselves to the existing conditions.

Isothermal lines are those passing through places having the same mean annual temperature, Isotheral lines, through places having the same mean summer temperature, and Isochimen. The through places having the same mean winter temperature. At the equator, there is little difference; but the farther north we go, the greater difference do we find.

Tempe	r- Am.	Eu.	Asia.	Characteristic Products
ature.	N. 1	Latit	ude.	of each Zone.
(1) 81°-7	8° 20°	20°	20°	Spices, Aromatic Plants.
(2) 78°-6	8° 31°	37°	31°	Sugar-cane, Coffee-tree.
(3) $68^{\circ}-5$	7° 36°	44°	40°	Olive and Fig-Cotton, Tobacco.
(4) 57°-5	0° 43°	50°	50°	Wine-grape, Corn.
(5) 50°-4	1° 49°	63°	58°	Oak and Elm, Wheat, Apples.
(6) 41°-3	2° 54°	66°		Fir, Pine, Birch, Rye, Barley.
(7) 32°-				Shrubs, Lichens, Mosses.
A				

Similar belts are to be found on the sides of a mountain from the sea level, where tropical vegetation flourishes up past the temperate heats, where the hardier fruits and grains grow, past the timber line and the region of shrubs and mosses to the region of eternal snow. This snow line varies in height according to latitude and other conditions.

There is also a difference in the plant and animal life in the ocean according to the depth below the surface. The greater the depth, the lower is the temperature, reaching almost to the freezing point of water.

THE FORMATION OF SOIL.

The earth is supposed at one time to have been a molten mass which gradually cooled till a crust was formed, leaving the interior still molten. As the earth continued to cool, it contracted and the hard surface became wrinkled like the skin of a cooled, baked apple. Thus was formed a surface of ridges and depressions, of mountain, hill, and valley, the lowest parts of which to-day form the bed of the ocean. From time to time, eruptions occurred and molten material such as flows from volcanoes now-a-days, was thrown up, forming layer after layer of igneous matter which cooled into rock and added to the size of the mountains.

Since that time, the work of erosion has gone on. The rock has been broken off by the frost, softened, worn away, and crumbled by the water, or ground off by the glaciers, and changed to soil. The rain has washed it off and the streams have carried it down into the valleys, depositing it along their courses or at their mouths.

Every part of the surface of the earth has been submerged, again and again, by the waters of the ocean. In the process of contracting, earthquake followed earthquake, and great regions were raised above the level of the sea, while others sank beneath its surface. How often this occurred, may be imagined when we know that in the formation of the coal-fields of Cape Breton the region was elevated and submerged fifty-nine times.

In the successive changes of elevation, the different parts of the earth have at various times been submerged and the waves and the currents have arranged the soil in layers or strata, in banks, which, when again raised above the sea-level, have been exposed to the influence of wind and rain and river current and changed into hill and dale, flat and slope, such as we have to-day.

FERTILE SOIL AND DESERTS.

Soil is the finely-divided rock material which forms the greater part of the land surface. According to the size of the particles of which it is composed, the soil has been classified as clay, loam, sand and gravel.

CLAY is composed of very fine particles of rock material which adhere so closely that water has great difficulty in soaking through. When wet, it may be formed into various articles, which, when dried and burnt, retain their form. Sand, on the contrary, is composed of larger particles—in fact each grain is a little stone,—and these are held together so loosely that water sinks away as readily as through a sieve.

Soils have been divided into two classes—fertile and sterile—according as they are capable of supporting vegetable life or not. In some parts, clay or sand may be found alone; but the surface soil is a loam composed of san and clay mixed with decaying vegetable and animal matter, which is called humus. Soils are light or heavy, according as the sand or clay predominates, and the ground easy or difficult to cultivate. Fertile soil has the power to absorb and retain heat, moisture, gas and plant-food. If the soil is too clayey, it will be apt to be wet, if too sandy, it will be too dry.

In some regions, there are great sand plains which were once the beds of seas or of the ocean. These are low and therefore not cold enough to condense an moisture that might be in the passing air. Any rain that might fall upon them would at once sink away. They give off no moisture and receive none. They are exposed to heat by day and cold by night, as well as to parching sand-laden winds. These deserts have no vegetation except at certain spots where a spring furnishes nourishment to a few trees, and drink to the passing caravan.

COMMERCE AND TRANSPORTATION.

Man is not satisfied with the bare necessaries which his own immediate neighborhood, and the present season, supply. He has become acquainted with the products of other lands and other climes; and through a long course of experiments he has succeeded in rising superior to the condition in which he found himself, and has made provision for exchanging the commodities which he can produce to advantage, in his locality, for the desirable products of other parts of the world.

The old methods of barter have given place to the sale and purchase of modern times; and the local market has developed into the commercial metropolis where the products of the whole world are offered for sale. The price is regulated by the law of supply and demand, and the amount is paid in gold or silver or bills of exchange. The rural population supply food and raw material to their urban brethren, and in return receive the skilled product of the manufacturing centres. All the world has become our province, and the races of mankind have become a commercial brotherhood, ministering, with profit, to the comforts and enjoyments of the human family.

Each part produces its characteristic commodities and provision is made to transport them to market. The long trip, on the ox-sled, or the lumber-wagon, to the distant market is a thing of the past; every village is a collecting centre; every river is a highway to the sea. A thou and railways form a commercial network for collecting and distributing goods and the trains seem to annihilate space. Every port is in communication with the rest of the world, and the little sailing vessels of former centuries, dependent upon wind and tide, have been superseded by the modern merchant vessels, independent of nature's aid, traversing the watery waste with a speed that is almost fabulous.

THE THREE KINGDOMS.

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All the material things in this earth are divided into three kingdoms—the Animal Kingdom, the Vegetable Kingdom, and the Mineral Kingdom. The Animal Kingdom includes all animals and everything of animal growth or manufactured from animal substances. The Vegetable Kingdom includes all plants, and their tissues and products, and everything manufactured from these materials. The Mineral Kingdom includes all rocks, minerals, ores, or precious stones, and manufactures of these materials.

The MINERAL PRODUCTS of a region will depend on the nature of the rock in that region, and the enterprise of the inhabitants in developing these natural resources. The VEGETABLE PRODUCTS of a region will depend upon the soil and climate, and the enterprise, skill, and industry of the inhabitants. The Animals to be found in a region will depend on the vegetation which supplies food suitable to the needs and tastes of these animals.

The Exports of a country are those articles of commerce which are sold to other lands; the Imports are those articles of commerce which are brought in from other lands. The Products are the marketed articles of the region, and the Industries are the occupations of the people.

The Natural Resources of a region may include many advantages supplied by nature—a favorable climate with abundance of heat and moisture—a fertile soil which will produce an abundant harvest and repay the toil of the husbandman—extensive forests which will affect the climate and supply material for building and manufacturing—rich mineral deposits which offer their wealth to the miner and the artisan—navigable rivers which furnish a highway for commerce—rapid streams and waterfalls which may be harnessed to produce electric light and heat and power; and with all of these Canada is richly endowed.

ANIMAL PRODUCTS OF COMMERCE.

DOMESTIC ANIMALS-WILD ANIMALS-PRODUCTS.

FOR MEATS: -- Cow, calf, sheep, lamb, goat, kid, pig.

BEASTS OF BURDEN:—Horse, mule, ass; ox, camel, llama; elephant, reindeer, dog.

FowL :- Hens, turkeys; geese, ducks-eggs.

PETS: -Dogs, cats, guinea-pigs, rabbits, etc.

FOOD :- Milk, cream, butter, cheese.

MEATS: -Beef, mutton, veal, pork, ham, bacon, fowl.

FISH: -Salmon, cod, herring, mackerel, etc.

Trout, white fish, bass, pike, etc. Oysters, lobsters.

OILS :- Lard, tallow, sperm, seal, fish, cod liver oil.

Covering:—Fur, hair, bristles, down, feathers, quills scales, shells.

FIBRES: -Wool, -sheep, merino, alpaca (llama) -silk.

HAIR: -Camel, goat, reindeer.

FEATHERS: -Ostrich, eiderdown, swansdown, plumage.

Skins:—Bear, deer, buffalo, fox, etc.

Fur: :- Beaver, otter, marten, fox, mink, ermine, lamb.

LEATHERS:—Cowhide, horsehide, calf-skin, sheep-skin, buckskin, pigskin, goat skin, etc.

Kid, morocco, Russian leather, parchment, etc.

Alligator, snake, turtle, walrus, etc.

INSECTS: -Silk worm, cochineal, Spanish fly, locusts.

VARIOUS: - Whalebone, ivory, pearls, mother of pearl, coral, sponges.

VEGETABLE PRODUCTS OF COMMERCE.

Cereals:—Wheat, rye, oats, barley, maze, rice, peas, beans; Flour, meals, bread, pastry, flax, (linseed oil).

Fruits:—Oranges, lemons, pineapples, bananas, guava;
Apples, pears, quinces;

Peaches, plums, apricots, cherries, grapes; Tomatoes, melons, squashes, pumpkins.

Figs, dates, prunes, raisins, currants, apricots.

Wines: - Grape, cherry, currant, cider, etc.

Roots:—Potatoes, turnips, carrots, beets, mangolds; Yams, cassava.

Vegetables: -Onions, cabbage, lettuce, celery.

Spices:—Cloves, cinnamon, nutmeg, mace, pepper, ginger, allspice;

Coffee, tea, cocoa, vanilla.

Nuts:—Almond, walnut, pecan, hickory, filbert, hazel, Brazil, peanut, cocoanut, cola, chestnut.

Oils:—Olive, palm, linseed, castor, turpentine.

Gums:—Arabic, rubber, gutta percha, eucalyptus.

Resins: - Resin, copal, camphor.

Timber:—Pine, fir, spruce; logs, timber, lumber, shingles;
—used for building purposes.

Maple, oak, elm, ash, birch, cherry, hickory, basswood.
—used in the manufacture of furniture.

Fine Woods:—Mahogany, ebony, walnut, rosewood, box wood, olive.

Fibres:—Cotton, linen (flax), hemp, cambric, (ramie), Jute, bart, manilla, tow, linden, kittuls.

—used in the manufacture of textiles.

Sugar :- Cane, beet, maple.

Prepared :- Sago, tapioca, macaroni.

Medicinal Plants :- Quinine, opium, cocaine.

Dyes :- Logwood, indigo.

Various:—Cork, tobacco, vegetable ivory.

MINERAL PRODUCTS OF COMMERCE.

METALS:—Obtained in veins of ore in mines.

Gold, silver, copper, nickel, platinum;

Iron zinc, tin, lead, cobalt:

M'F'RS.:—Steel, wrought iron, bronze, brass, type metal STONE:—Obtained from quarries.

Granite, quartz, gneiss, flint, basalt, lava;
Building-stone—sandstone, limestone, granite, marble.
slate;

Lime, cement, plaster of Paris, alabaster; Clay, slate, brick, tile, pottery, porcelain; Grindstones, whetstones and oilstones. Stone, boulders, macadam (broken stone); Soil, clay, sand, loam, gravel, pebbles.

COAL:—Obtained in seams in the mines.

Anthracite, bituminous, lignite, albertite;

Cannal Coal (jet), peat.

RESINS:—Obtained in "oil wells" or "pitch lakes."

Petroleum, maltha, asphalt, bitumen;

Kerosene, benzine, aniline, paraffin, napthaline,

creosote tar;

Oils, waxes, dyes, essences, perfumes, drugs; Amber and copal.

FIBRES, ETC. :- Asbestos, serpentine, mica.

Jewels and Precious Stones:—Diamonds, rubies, emeralds, sapphires, amethysts, topazes, etc.;
Turquoises, opals, agates, moonstones, etc.

CHEMICALS AND DRUGS:—Salt, salts, saltpetre;
Blue vitriol, copperas, arsenic, etc.
Sulphur, phosphorus.

MOUNTAIN FEATURES.

The Crust of the earth is that part of it which has become cooled and hardened. In this process of cooling and contracting surface has formed itself into mountains and valleys. The weather has gradually worn off these hills and the ground has been carried down into the valleys to form the plains. Peculiar forms in the surface have been named physical features.

A Mountain is an elevation of land over 2,000 feet above the surrounding country.

A Mountain Range or Chain is a line of mountains.

A Mountain System is two or more parallel ranges.

A Hill is an elevation, less than 2,000 feet in height.

A Hillock, Mound or Knoll is a small hill.

A Down or Dune is a sandy hill.

A Summit or Peak is the highest part of a mountain.

A Pinnacle is a high point of a rock.

The Slope is the mountain side.

The Base or Foot is the lowest part of a mountain.

A Cliff is a high steep rock.

A Precipice or Escarpment is a very steep slope.

An Abyss is a very deep precipice.

A Crevice is a wide crack in a rock.

A Ledge is a shelf-like rock.

A Tunnel is an underground passage, as through a mountain or under a river.

A Plateau or Tableland is a tract of country over 1,000 feet above the sea level.

A Highland or Highlands is a mountainous distance.

A Glacier is an immense mass of ice sliding slowly down a mountain side. It is formed of the snow that has accumulated for centuries in the higher parts of the mountain.

A Moraine is a line of rocks left by a glacier.

An Avalanche or Snowslide is a mass of snow sliding or rolling swiftly down a mountain side.

A Valley is a depression between hills or mountains.

A Vale or Dale is a small valley.

A Dingle is a shady valley.

A Glen is a narrow secluded valley.

A Strath is a valley of considerable size often containing a river. (Scotland).

A Pass is an opening, or passage, across a mountain chain,

A Defile is a long narrow pass.

A Cave is a natural cavity or hollow in rocks.

A Cavern is a large cave.

A Grotto is a small cave, natural or artificial.

A Volcano is a mountain emitting fire, ashes, or lava.

An Active Volcano is one in eruption all or part of the time.

An Extinct Volcano is one that has ceased to be active.

A Crater is the mouth of a volcano.

Lava is melted rock out of a volcano.

A Plain is a low tract of nearly level land.

Landes are sandy plains. (France).

Steppes are vast, rocky, salty, unwooded plains. (Russia).

Tundras are low, mossy plains. (Siberia).

Prairies are grassy plains, nearly treeless. (N. America).

Savannahs are treeless, meadow plains. (United States).

Llanos are grassy, treeless plains. (Venezuela).

Silvas or Selvas are densely wooded plains. (Brazil).

Pampas are grassy, treeless plains. (Argentine Republic). Moors or Heaths are desolate plains. (Great Britain).

A Swamp is a low wet tract covered with trees.

A Morass, Marsh, Bog or Fen is a low wet spot covered with reeds or shrubs.

A Desert is a sandy or rocky waste.

An Oasis is a fertile spot in a desert.

DRAINAGE FEATURES.

A Stream is of great importance. It drains away the excess : f water and returns it to the sea. It bears moisture and fertility to dry regions. It is constantly changing the face of the country—wearing away the rock and soil which forms its banks and carrying away the soil and depositing it along its course, or at its mouth. It is also a distributing agent, carrying seeds and plants from one part of its course to another.

It is a carrying agent for man, as in floating the lumberman's logs to market. If the stream is navigable, it forms a commercial waterway for transportation; and if the current is rapid, the water can be dammed and made to supply electricity for light, heat and power.

A Stream is flowing water.

A River is a large stream of fresh water flowing through or over the land. It is navigable if it is deep enough for the passage of large vessels. The water is rain or melted snow.

A Creek is a smaller stream than a river.

A Rill, Brook, Brooklet, Rivulet, or Streamlet, is a very small stream.

A Torrent is a violent mountain stream.

The Source, Spring or Head is the beginning of the stream.

The Course is the path of the stream.

The Bed is the land at the bottom of the stream.

The Surface is the top of the water.

The Channel is the deeper part of the stream.

The Current is the onward movement of the water, es. pecially where swift.

The Bank is the rising ground on each side of the stream.

The Right Bank is the right side, as one goes down the stream.

The Left Bank is the left side, as one goes down the stream.

The Brink or Margin is the edge of the bank.

A Beach is a level, pebbly, or sandy bank.

A Levee is an artificial bank to prevent overflow of a river. (Mississippi).

A Crevasse is a break in a levee.

The Mouth is where the stream empties into some other body of water.

An Estuary is the wide mouth of a river affected by tides.

A Delta is the land between the mouths of a river. These islands are formed of sediment.

Sediment, or Alluvial Deposit, is the soil carried down by a river and deposited at its mouth, or along its course.

A Shoal is any shallow place in water.

A Sand Bar is a bank of sand, formed by the current, in the bed of a river.

A Ford is a place in a river where it may be crossed by wading.

A River Basin is the whole area drained by a river and its tributaries.

A River Valley is the depression through which a river runs.

A Watershed, Divide, or Height of Land, is a ridge that separates river basins.

A Bayou is one of the divisions of a river, at its mouth.

A Tributary or Affluent, is a stream flowing into a larger stream.

Fork or Confluent, is one of two streams that unite to form a river. (North and South Saskatchewan).

A Confluence is the place where two streams unite.

A Pool is a small body of still water.

A Pond is a larger body than a pool.

A Dam is an embankment across a stream.

- A Lake, Loch, or Lough, is a large body of water surrounded by land.
- A Lake Expansion is a part of a river that widens into a lake.
- A Lagoon is a shallow lake in low-lying districts beside the sea. (Italy).
- A Tarn is a small mountain lake.
- A Waterfall is the water of a river falling over a steep rock.
- A Cascade is a small waterfall.
- The Cascades are a series of small waterfalls.
- A Cataract is a very large waterfall.
- A Rapid, or Sault, is the water of a river flowing rapidly over rocks.
- An Eddy is any place where water whirls round.
- A Whirlpool is an immense eddy.
- A Ravine, or Gorge, is a deep, narrow hollow generally worn away by running water.
- A Gully is a small gorge.
- A Canon, or Canyon, is a very deep gorge where a river has worn a passage through the rock.
- A Canal is an artificial waterway for irrigation or navigation.
- A Canal Lock is an enclosure in a canal. It is fitted with gates at each end, and is used for raising or lowering boats from one level to another.
- A Timber Slide is an artificial passage, constructed beside a waterfall, down which square timber is floated.
- A Spring is water rising to the surface of the earth. It is fed by rain that has fallen on some higher level and worked its way through the earth, generally along a strata of gravel.
- A Geyser is a hot spring which at certain intervals projects a stream of hot water into the air

OCEAN FEATURES.

The Ocean forms three-fourths of the surface of the earth. Though it separates the continents, it forms a connecting link between them, offering a highway to the commerce of the world and bearing on its bosom the product of every clime to minister to the comfort of man in other lands.

Myriads of ships dot its surface visiting every country and calling at every port; while a network of submarine cables bears the messages of commerce everywhere. In a few days, the ocean grey-hounds speed across this vast expanse of water bearing their precious burdens of life and merchandise and yet by means of wireless telegraphy holding constant communication with the shore and with other vessels out upon the deep.

Many provisions have been made by the Almighty to keep this great body of water from becoming a stagnant pool. Its water is salty and is kept in constant motion. Twice a day the tide rises and falls with its mighty swell. The winds and storms, which at times seem to mock the seaman's kill, are unceasing; and the currents of the ocean carry on a constant interchange of water between the warm regions of the tropics and the cold waters of the poles. Then the sun with his purifying influence is constantly smiling upon its surface and bearing away moisture to supply rain to refresh the thirsty land, or to protect the earth with a mantle of snow.

Britain is the "Mistress of the Sea." Her vessels outnumber those of all other nations combined, and her navy rides on every sea, guarding the interests of the motherland and the sisterhood of nations which form the British Empire, the vastest in extent and greatest in commerce, wealth, and population, of all the empires the world has known. An Ocean is an immense body of salt water between continents.

A Sea is a smaller lody of salt water than an ocean.

The Sea is the ocean (a general term).

A Gulf, or Bay, is a hollow, or bend, in the coast line. A gulf is deeper than a bay.

An Inlet is any opening in the coast.

A Bight is a wide inlet which does not extend far inland.

A Firth, or Frith, is a long narrow inlet at the mouth of a river. (Scotland.)

A Fiord is a narrow inlet with high, rocky banks. (Norway.)

A Strait is a narrow passage of water connecting two bodies of water, or separating two bodies of land.

A Gut is a narrow strait. (Nova Scotia).

A Channel is a wide strait.

A Sound is a shallow strait.

The Sea-bed is the bottom of the ocean.

The Sea-level is the level of the surface of the ocean. The height of a mountain and the depth of the sea is reckoned from the sea-level.

Tides are the regular rise and fall of the water of the ocean and its inlets caused by the attraction of the moon and the sun.—See page 18.

A Wave is a swell or ridge on the surface of the water.

A Billow is an immense wave.

Breakers are waves dashing against reefs, or the shore.

A Tidal-wave is the wave caused by the tide advancing on shore.

The Bore is the front of a tidal-wave, ascending a river.

An Earthquake-wave is an immense wave caused by an earthquake at the bottom of the sea.

An Ocean-current is the streamlike movement of water in the ocean. See page 19.

A Port is a calling place for ships—the harbor and the town.

A Harbor or Haven is a place of shelter for ships.

A Breakwater is a strong embankment to break the force of the waves and protect harbor or shore.

A Road, or Roadstead, is a good anchorage off the shore, a place for ships to anchor, but without harbor protection.

An Isle, or Island, is a piece of land surrounded by water.

An Islet is a small island.

An Archipelago is a group of many islands.

An Atoll is a circular coral island surrounding a lagoon. (Pacific Ocean.)

A Bank is a shallow place in the sea. (Newfoundland).

A Coast, or Shore, is the land bordering on the water.

The Sea-board is the sea-shore.

A Shore-line is the water-line along a shore.

A Beach is a sandy, or pebbly shore.

A Bluff is a high, steep bank, back from the shore.

A Cliff is a steep, rocky shore.

A Reef is a line of rocks just below the surface of the water. Many reefs are of coral formation.

A Dyke is an artificial bank along the coast. (Holland).

A Cape is a point of land jutting into the water. Local names: Head, Point, Ness, Naze, Mull, Bill, Butt.

A Promontory is a high rocky cape.

A Peninsula is a piece of land nearly surrounded by water.

An Isthmus is a narrow neck of land joining two larger portions of land.

An Iceberg is an immense mass of ice floating in the sea. It comes from the Polar regions and is carried by the polar currents to warmer regions, where it melts.

A Lighthouse is a tower, with a light, as a guide or warning to sailors. It is placed where there is danger to navigation.

A Submarine Cable is a telegraph line beneath the sea.

POLITICAL FEATURES.

Man is the crowning act of the Creator's work. Endowed with higher faculties and greater possibilities than his fellow creatures, his progress has been greater. Experience has taught him that in unity there is strength, and instead of living the solitary life of a savage, depending on self alone for food, clothing, and protection, he has learned to dwell in communities—a Brotherhood of Men.

In these communities, each man devotes himself to some special occupation for which he is specially endowed. Instead of being a "Jack of all trades" he becomes a specialist and confines his energies to the preparing of some commodity which his district can produce to advantage, or to some occupation which will add to the welfare of his fellows, and he exchanges his products or skill with his fellow-man, in the markets of the world. In this way the products of the world are increased and the pleasures and comforts of mankind are multiplied.

In these communities, mutual obligations are accepted, and law and order prevail. The individual loses some of the liberties of action which belong to the savage life, and conforms to such customs as experience has shown to be for the common good. To secure concerted action, leaders are chosen and the rights of each member of the community are defined. Laws are enacted and officers are appointed to administer and enforce these laws, according to adopted plans.

AN INDUSTRIAL CENTRE is a community where one or more commodities are produced extensively. This will be the result of one or more local conditions. It may possess some natural resources, such as a forest or a mine, supplying material which may be manufactured. It may have a natural water-power or a coal field which would supply energy for manufacturing. It may have excellent

means of transportation, by rail or by water, to carry the raw material and the manufactured articles to and from the centre. It may be a distributing centre, having excellent means for receiving and distributing commodities. It may possess some enterprising individuals or firms, who, by skill and industry, have established a business which years have crowned with a world-wide reputation. Without such sons, the natural resources of a land are valueless.

These communities are named according to their size. A CITY is a community having a population of 9,000, and a council to manage its own affairs. A Town has over 2,000 people, and an Incorporated Village, over 800. A smaller community is called a Village, or Hamlet.

A NATION is a number of communities under one government; and the land in which they dwell is called a Country. According to the title and privileges of the chief magistrate, these countries are called Empires, Kingdoms, Principalities, Dukedoms, or Republics.

A Monarchy is a country governed by a hereditary monarch. An Absolute Monarchy is one whose monarch has absolute power; a Limited Monarchy is one in which the power of the monarch is limited by law. An Empire is a union of nations for military purposes. In A Republic the chief magistrate is a president who is elected to office for a stated time. A Commonwealth is a country with a government similar to a republic. A Colony is a country settled by people from the mother land and still under her rule.

For purposes of government, a country is divided into States of Provinces, and these into Counties or Shires, and these into Townships and School Sections. The seat of government of a county is called the County-Town; that of a country, state or province is called the Capital.

THE IMPORTANT PHYSICAL FEATURES OF THE WORLD.

CONTINENTS—in order of size :-

Asia, Africa, North America, South America, Europe, Australia.

OCE INS-in order of size :--

Pacific, Atlantic, Indian, Arctic, Antarctic.

COUNTRIES AND CAPITALS :-

All countries should be known, and those capitals that are important cities. See pp. 50, 84, 90, 103, 109, 112.

SEAS:—

Caribbean, Bering;

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b,

Baltic, North, Irish; Mediterranean, Black, Caspian;

Japan, Yellow, China, Red, Arabian; Coral.

GULFS AND BAYS :-

Baffin, Hudson, James, St. Lawrence, Fundy, Mexico, California; Panama, Darien;

Bothnia, Finland, Biscay; Lyons, Genoa, Venice.

Pechele, Tonquin, Siam, Bengal, Persian.

Capes, Sidra, Suez, Aden; Carpentaria, Australian. STRAITS, CHANNELS AND SOUNDS:—

Davis, Hudson, Belle Isle, Cabot, Florida, Yucatan, Juan de Fuca; Magellan, Le Maire;

Dover, English, St. George, North, Gibraltar, Dardanelles, Bosphorus.

Bering, Korea, Malacca, Palks, Ormuz; Bab-el-Mandeb-Mozambique.

ISLANDS:-

Greenland, Iceland, Newfoundland, Anticosti, Prince Edward, Cape Breton; Cuba, Hayti, Jamaica, Porto Rico; Vancouver, Queen Charlotte;

Trinidad, Falkland, Tierra del Fuego;

Great Britain, Ireland, Corsica, Sardinia, Sicily, Malta, Cyprus:

Japan, Formosa, Hainan, Ceylon, Philippine; Borneo, Sumatra, Java, Celebes, New Guinea; Madagascar, St. Helena, Cape Verde, Canaries, Azores; Australia, Tasmania, New Zealand.

PENINSULAS :-

Labrador, Nova Scotia, Florida, Yucatan, Lower California, Alaska:

Norway and Sweden (Scandinavia), Denmark (Jutl. nd), Spain and Portugal (Iberia), Italy, Greece, Crimea; Arabia, India, Malay, Korea.

ISTHMUSES :-

Darien or Panama, Chignecto, Kiel, Corinth, Perekop: Suez.

CAPES :-

Farewell, Race, Sable, May, Canso, San Lucas, Flattery; Gallinas, St. Roque, Horn, Blanco;

North, Naze, Wrath, Clear, Land's End, La Hague, Finisterre, Trafalgar, Spartivento, Passero, Matapan.

Lopatka, Cambodia, Negrais, Dondra.

MOUNTAINS :-

Rocky, Alleghany; Andes, Brazilian;

Alps, Carpathian, Balkan, Apennines, Pyrenees, Ural;

Himalaya, Hindu Kush, Thian Shan, Altai, Elburz, Caucasus;

Abyssinian, Drakenberg, Kong, Atlas.

RIVERS :-

Mackenzie, Saskatchewan, St. Lawrence; Mississippi, Missouri, Ohio; Colorado, Columbia, Fraser, Yukon;

Orinoco, Amazon, Rio de la Plata;

Dwina, Vistula, Elbe, Rhine; Thames, Seine, Loire, Tagus, Rhone, Tiber, Danube, Dnieper, Don, Volga.

Amoor, Yangtse-Kiang, Hoang-ho, Mekong, Ganges, Indus, Tigris, Ephrates:

Nile, Zambesi, Orange, Congo, Niger; Murray, Darling.

NORTH AMERICA.



1. POSITION :-

From 10° N. lat. to the North Pole.

The greater part is in the North Temperate Zone.

Between the Atlantic and the Pacific Oceans.

Compare the latitude with that of Europe and Asia.

2. BOUNDARIES :-

North-Arctic Ocean.

EAST :- Atlantic Ocean, Caribbean Sea.

WEST-Pacific Ocean, Bering Strait and Bering Sea.

3. SURFACE :-

THE GREAT WESTERN HIGHLANDS:-The Cordillera System of mountains.

(1) THE ROCKY MOUNTAIN SYSTEM:-

RANGES :- Rocky, Sierra Madre.

PEAKS :- Columbia, Brown, Hooker. Murchison ; Freemont, Pike; Popocatepetl.

(2) THE COAST SYSTEM :-

RANGES :- Alaskan, Cascade, Selkirk, Sierra Nevada,

PEAKS: - Wrangel, Logan, St. Elias, Fairweather; Rainier, Hood, Shasta, Whitney.

THE GREAT EASTERN HIGHLANDS:-The Secondary Highlands of the Continent.

(1) THE APPALACHIAN SYSTEM: --

RANGES: - Notre Dame, White, Green, Catskill, Alleghany,

PEAKS :- Mount Washington (N. H.).

(2) THE BASIN OF THE ST. LAWRENCE.

THE LAURENTIAN PLATEAU:-

The oldest rock Formation in the World.

RANGES: -- Adirondacks, Wotchish-"The height of land."

THE GREAT CENTRAL PLAIN :-

- (1) THE BASIN OF THE MACKENZIE.
- (2) THE HUDSON BAY SLOPE OR BASIN.
- (3) MISSISSIPPI BASIN AND SOUTHERN SLOPE.
- (4) THE BASIN OF THE ST. LAWRENCE.

4. DRAINAGE :-

Many of these rivers and lakes are navigable for great distances, and play an important part in commerce and transportation. Others afford magnificent water-powers to aid in manufacturing.

THE ARCTIC SLOPE :-

(a) THE BASIN OF THE MACKENZIE:
RIVERS:—Slave, Mackenzie; Athabasca, Peace, Liard.
LAKES:—Great Bear, Great Slave, Athabassa, Wollaston,
Deer.

(b) THE HUDSON BAY SLOPE OR BASIN:—
RIVERS:— Churchill, Nelson, Albany, East Main;
Saskatchewan, Red, Assiniboine, Winnipeg.
THE ATLANTIC SLOPE:—

(a) INTO THE ATLANTIC:

RIVERS:—Hamilton, St. Lawrence, St. John, Hudson, Delaware, Potomac, James, Savannah.

(b) THE BASIN OF THE ST. LAWRENCE:-

RIVERS:—St. Mary, St. Clair, Detroit, Niagara; Ottawa, St. Maurice Saguenay, Richelieu.

LAKES: Superior, Michigan, Huron, St. Clair, Erie, Ontario;

Nipigon, Nipissing, Simcoe, St. John, Champlain.

THE SOUTHERN SLOPE :-

(a) INTO THE GULF OF MEXICO:-

RIVERS: - Mississippi, Brazos, Rio Grande.

(b) THE BASIN OF THE MISSISSIPPI :-

TRIBUTARIES:—Ohio—Cumberland, Tennessee.
Missouri—Yellowstone, Platte.

Arkansas-Canadian-Red.

THE PACIFIC SLOPE :-

RIVERS:—Colorado, Sacramento, Columbia, (Snake), Fraser, Yukon.

5. NATURAL RESOURCES :-

THE WESTERN PLATEAU is rich in gold, silver and lead, while coal and iron of excellent quality are found in British Columbia. The coast region has abundance of rain, and the northern part of the plateau is covered with dense forests of valuable timber. The rivers teem with fish, and the orchards and vineyards of California are world-famed.

In THE EASTERN PLATEAU coal and iron are found in abundance in the Appalachian Region.

THE LAURENTIAN PLATEAU is rich in gold, silver, nickel and copper, while forests of pine and spruce cover its rocky surface. The fishing grounds east of Canada are among the richest in the world.

THE GREAT CENTRAL PLAIN is composed of rich soil. The centre is prairie, but the northern and southern parts are woodland. Many tropical products grow in the southern part of the continent, and the forests of the north abound in fur-bearing animals.

6. COAST FEATURES—WATERS :-

(1) OCEANS:

Arctic, Atlantic, Pacific.

(2) SEAS :-

Caribbean, Bering.

(3) GULFS AND BAYS :-

Mackenzie, Coronation, Boothia, Baffin, Hudson, James, Ungava;

St. Lawrence, Chaleur, Fundy, Delaware, Chesapeake Mexico, Campeachy, Honduras; California, San Francisco, Bristol, Norton. (4) STRAITS, CHANNELS AND SOUNDS:-

Davis, Hudson, Fox;

Belle Isle, Cabot, Northumberland, Canso, Long Island, Florida, Yucatan, Windward, Mona;

Golden Gate, Juan de Fuca, Puget, Georgia, Hecate, Queen Charlotte, Dixon, Behring.

7. COAST FEATURES-LAND:-

(1) CAPES :-

These are important only in connection with navigation. The northern capes are unimportant.

Farewell, Chudleigh, Charles, Bauld, Race, Ray, Canso, Sable, Cod, Hatteras, Sable, Catoche, Gracios a Dios; San Lucas, Mendocino, Blanco, Flattery, Scott, St. James, Knox, Prince of Wales.

(2) PENINSULAS:-

Boothia, Melville.

Labrador, Avalon, Nova Scotia, Florida, Yucatan; Lower California, Alaska.

(3) ISTHMUSES:-

Panama (Darien), Tehuantepec, Chignecto.

(4) ISLANDS:-

Parry, Banks, Albert and Victoria, Prince of Wales, North Devon, Cockburn, Southampton, Baffin, Greenland, Iceland;

Newfoundland, Anticosti, Prince Edward, Cape Breton, Long, Bermuda;

Bahama, West Indies—Greater Antilles, Lesser Antilles; Cuba, Hayti, Jamaica, Porto Rico; Windward, Leeward.

Vancouver, Queen Charlotte, Prince of Wales, Sitka, Aleutian, Pribylov.

8. POLITICAL DIVISIONS :-

Countrie	ES CAPITALS	Gov	T EXPORTS
Canada	Ottawa	Br.	See list p. 52.
United States			occ nst p. 52.
and Alask	a Washington	Rep.	See list p. 52
Mexice	Mexico	Rep.	See list p. 52.
Central Ame		- · · ·	oce 11st p. 52.
Br. Hondu	ras Balize	Br.	6
Guatemala	Gautemala	Rep.	Coffee ind:
Nicaragua	Managua	Rep.	Coffee, india-rub-
Honduras	Tegucigalpa	Rep.	ber, cabinet-woods.
Salvador	San Salvado	Rep.	dye woods, medi-
Costa Rica	San José	Rep.	cinal plants.
Mosquito		Jacp.	1
Coa	ıst		
West Indies :	_		
Cuba	Havana	D	
Hayti	Port au Prince	Rep.) ~
Dominica	San Domingo	nep.	Sugar, molasses.
Porto Rico	San Juan	U.S.	rum, tobacco,
Jamaica	Kingston	Br.	cigars, coffee,
Bahamas	Nassau	1	fruits.
Leewards	St. John	Br.	Fruit, turtles, salt.
Windwards	St. George		~
Barbadoes	Bridgetown	Br.	Sugar.
Bermudas		Br.	
		Br.	egetables.
Newfoundland	St. John's	D	
and Labrado	r John 8	Br. F	ish, furs, iron ore.
Freenland	0		
celand	TO 00 0	Den.	Whale-oil, whale-
	CINISAIR	Den.	bone, hides,
-	1		eiderdown.

9. COMMERCIAL CENTRES :-

CANADA:—In order of size—1901 census—Montreal, Toronto, Quebec, Ottawa, Hamilton, Winnipeg, Halifax, St. John, London, Vancouver, Victoria, Kingston, Brantford, Hull, Charlottetown, Windsor, St. Thomas, Sherbrooke, Peterboro, Valleyfield, Guelph, St. Hyacinthe, Stratford, Three Rivers, Belleville, Berlin, Woodstock, Chatham, Brockville—Calgary, Edmonton (1906).

UNITED STATES;—In order of size—all over 200,000 (1900)—Greater New York, Chicago, Philadelphia, St. Louis, Boston, Baltimore, Cleveland, Buffalo, San Francisco, Cincinnati, Pittsburg, Ne. Orleans, Detroit, Milwaukee, Washington, Newark, Jersey City, Louisville, Minneapolis.

Al! over 100,000 (1900) — Providence,. Kansas City, Indianapolis, St. Paul, Rochester, Denver, Toledo, Alleghany, Columbus, Worcester, Syracuse, New Haven, Patterson, Fall River, St. Joseph, Omaha, Los Angeles, Memphis, Scranton. Forty others have a population of over 50,000.

10. INDUSTRIES:-

CANADA:—Agriculture, grain-raising, dairying, stock-raising, fruit-growing;

- -Fishing, canning, fur-trading;
- -Mining, lumbering, ship-building;
- -Manufacturing, commerce, transportation.

UNITED STATES: — Agriculture, grain-raising, fruitgrowing, stock-raising, tobacco and cotton growing;

- -Mining, lumbering, manufacturing;
- -Fishing, canning, meat-packing;
- -Commerce and transportation.

MEXICO:—Agriculture, mining.

CENTRAL AMERICA: - Lumbering, coffee-growing.

WEST INDIES: Raising sugar, fruit, tobacco, coffee.

11. EXPORTS AND IMPORTS:-

COUNTRY	EXPORTS IMPORTS:			
Canada	Grain, live stock, cheese, lumber and timber, metals, coal.			
United States	1 SUCK. COL	coffee, spices, fruits - Manufactures, bar- ley, india-rubber, fish, sugar, tea, cof-		
Mexico	Silver, quicksilver, hides, sisal hemp.	fee, spices. Manufactures, fish, oils.		
West Indies	sugar, coffee. Sugar, molasses, rum, tobacco, cigars, fruit, coffee.	Flour, meats, fish, manufactures.		
Newfoundland	Fish, furs, minerals.	Wheat, flour, meats, coal, manufactures.		

COMMERCIAL ROUTES.

1. CONTINENTAL WATERWAYS:-

The St. Lawrence System. The Mississippi System.

2. TRANS-CONTINENTAL RAILWAYS-CANADIAN:-Canadian Pacific Railway System—St. John to Vancouver. Grand Trunk Railway System-Portland to Chicago. Grand Trunk Pacific-Moncton to Prince Rupert. Intercolonial Railway System-Montreal to Halifax and Sydney.

3. TRANS-CONTINENTAL RAILWAYS—AMERICAN: There are none that cross the continent like ours. Union Pacific, Northern Pacific, Southern Pacific, Great Northern, Lehigh Valley, Pennsylvania System, and many more, serve large districts and have many branches, but do not cross the continent from ocean to ocean.

4. Trans-Atlantic Steamship Lines:

ALLAN LINE:—Montreal to Liverpool, London, Glasgow. Dom. Line:—Montreal to Liverpool; Boston to Glasgow. Can. Pacific:—Montreal to Liverpool; Boston to Naples. Hamburg-American Line:—The greatest in the world—

Hamburg to Montreal, Portland, Boston, Philadelphia, Baltimore, New Orleans, Galveston, West Indies, and 45 other services to all parts of the world.

N. GER. LLOYD:—Bremen to New York, Baltimore, etc. Cunard Line:—New York and Boston to Liverpool.

There are many more, the commerce between America, and Europe being enormous.

5. Trans-Pacific Steamship Lines:—
Can. Pacific:—Vancouver to Japan, China, Australia.
Oceanic:—San Francisco to Hawaii, and Australia.
Pacific Mail:—San Francisco to Japan and China.
Oriental and Occidental:—San Francisco to Japan, China.
Great North S. S.:—Portland, Seattle to Japan, China.

6. CANADIAN SEAPORTS :-

EASTERN:—Montreal, Quebec, Halifax, St. John.
These trade with Britain, "wfoundland and West Indies.

Western:—Vancouver, Victoria, (Prince Rupert).

These trade with United States, Japan, China and Australia.

7. AMERICAN SEAPORTS:

EASTERN:—New York, Boston, Philadelphia, Baltimore, New Orleans.

These trade with other American ports, Europe, West Indies and South America.

WESTERN: -San Francisco, Seattle, Portland.

These trade with Canada, Alaska, South America, Sandwich Islands, Japan, China. Australia.

CANADA. 1. BOUNDARIES :-

NORTH :- Arctic Ocean ;

EAST :- Baffin, Davis, Atlantic,

South: Passamaquoddy, St. Croix, Maine, New Hampshire, 45th Parallel, St. Lawrence, Ontario, Niagara, Erie, Detroit, Lake and River St. Clair, Huron, St. Mary, Superior, Pigeon, Rainy Lake and River, Lake of the Woods, 49th Parallel, Haro, Juan de Fuca.

WEST: - Pacific, Dixon Entrance, Alaska.

THE STATES ALONG THE CANADIAN BOUNDARY LINE :-Maine, New Hampshire, Vermont, New York, Pennsylvania, Ohio, Michigan, Minnesota, North Dakota, Montana, Idaho, Washington.

2. PROVINCES :-

N			INCI			-
NAME	ENT.	AREA	Pop.	SEN.	M.P	CAPITALS.
British Columbia	1871	357	178	-	_	
Saskatchewan	1905	الكالكا		3		Victoria
Alberta	1905	-	184	4		Regina
Manitoba Ontario	1870		255	4	10	Edmonton Winnipeg
Quebec	1867		2182	24	86	Toronto
New Brunswick	1867	347		24	_	Quebec
Nova Scotia	1867 1867	28	331	10		Fredericton
Pr. Edward Id.	1979	20	459	10	18	Halifax
Note.—Quebec has	65 ren	2	103	4	4	Charlottetown

Note.—Quebec has 65 representatives in the House of Commons. The other provinces have a proportional number according to population. The census of the Twin Provinces (1906)—the others 1901—is shown herein.

A Province has self-government within the limits laid down by the B. N. A. (1867).

A DISTRICT is a large section of unorganized, sparselysettled, country, not of sufficient importance for a separate government. Any number of districts may be united to form a territory.

"THE NORTH WEST TERRITORIES"

Under the Dominion Government-Act of 1905.

A TERRITORY is a division of the country governed by a Commissioner, or Lieutenant-Governor, and a Council to which members may be elected or may be appointed by the Dominion Government.

NAME OF DISTRICT.	Date of Org.	Area 1000 sq. mi.	Natural Resources. Senate Report, 1888.
Mackenzie	1896	551)	Gold, silver, copper, iron.
Franklin	1896	500	Flumbago, mica.
Ungava	1896		Lignite (coal), petroleum.
Keewatin	1876		Musk ox, reindeer, otter.
Saskatchewan	1905		Beaver, bear, moose, seal,
Athabasca.	1905	* 25)	whales.

Special legislation is expected regarding these districts.

* The part not included in the new Province.

SUMMARY OF CANADIAN INDUSTRIES :-

B. C.:—Mining, lumbering, fishing, canning, fur-trading, agriculture.

Man.:-Farming (grain and stock), lumbering.

Alta.:-Mining, ranching, farming.

Sask.:—Farming (grain and stock).

Ont.:—Farming (grain, stock, fruit), canning, meat-packing, manufacturing, lumbering, mining, fishing, ship-building, shipping.

Que.:—Lumbering, fishing, manufacturing (woollens, cottons, etc.), mining, farming, shipping.

N. B.:—Lumbering, fishing, manufacturing, ship-building, farming, mining, shipping.

N. S.:-Mining, fishing, farming, shipping, manufacturing.

P. E. I.: Farming, fishing, manufacturing.

RASER'S ENTRANCE GEOGRAPHY.

3. THE CLIMATE :-

The climate of Southern British Columbia is very mild. The prevailing wind is from the west; and as it passes over the Japan current which flows southward along the coast it is laden with moisture which passes up the mountain side and falls as rain. The mountains to the west and north protect the province from cold north winds.

The climate of Central and Southern Alberta is very The cattle remain in the open all winter. At certain seasons, the warm, dry, Chinook winds prevail, before which snow disappears. The climate of the Peace River District

is similar to that of Ontario though so far north.

MANITOBA AHD SASKATCHEWAN are far inland and there is comparatively little forest. The climate is therefore subject to greater variation between summer and winter and day and night. In winter, north winds prevail, and at times blizzards occur; but the summer is hot, and though frosts occur in early autumn, the finest wheat in the world

Ormanio has a variable climate. It has no mountains to screen it, and is subject to south-east influences from the Atlantic, south-west influences from the western plains and the Gulf of Mexico, and north-east and northwest influences from the cold regions of the Arctic. makes the climate variable and subject to sudden changes. The winter is moderately long and the summer quite warm. The rain-fall and snow-fall is abundant, and makes the land

THE CLIMATE OF QUEBEC is similar to that of Ontario. Nearer to the sea, her rain-fall is more abundant. Farther north, her winters are longer and colder, and her summers shorter and hotter, but mature vegetation of all kinds and

produce a forest of inexhaustible extent.

THE MARITIME PROVINCES are so near the ocean that the climate is milder than that of Onturio. In spring, dense fogs prevail—the cold polar current here meets the Guli Stream and produces fogs that render navigation very

4. CHIEF INDUSTRIES OF CANADA.

INDUSTRY.	"Producing"	WHERE	
Farming.	Grain.	Ont., Man., Que., Sasl	
	Live Stock	Ont., Que., Man., Alto	
	Fruit, Eggs.	Ont., Mar. Prov.	
Lumbering.	Lumber, timber.	Ont., Que., N.B.	
	Logs, shingles	B.C., Ont., Que.	
	Pulp-wood.	Ont., Que.	
Fruit Growing	Apples.	Ont., N.S., P.E.I.	
	Peaches, grapes.	Ont.	
	Butter and cheese	Ont., Que., Mar. Prov	
Salt, Pe	troleum.	Ont.	
Ships.	,	Mar. Prov., Ont.	
	oollens, agricultural		
	nts, flour, sugar,	Ont., Que.,	
•	boots and shoes,	Mar. Prov.	
	, organs, and pianos.		
Fishing.	Whitefish, herring,		
	Cod, lobsters, her- ring, mackerel.	Atlantic Coast.	
	Salmon.	B. C.	
Mining	Coal.	N.S., B.C., Que., Alta.	
	Gold.	Yukon, B.C., N.S., Ont.	
	Silver.	B.C., Ont., Que.	
	Iron.	Ont., N.S., N.B., B.C.	
	Copper, nickel.	Ont.	
Canning	Fruit, vegetables.	Ont.	
	Lobsters.	Mar. Provinces.	
	Salmon.	B.C.	
	Meats.	Que., Ont.	
Pork Packing	Bacon, Ham.	Ont.	
The Fur Trade	Furs.	Northern parts.	

5. CHIEF EXPORTS :-

Lumber, Timber :- Britain, U.S., W.I., S. Am., Fr. Cheese :- Britain.

Grain and Seeds :- Britain, U.S., Ger., Fr., Nfd., W.I. Live Stock: -Britain, U.S., Ger., Fr., Nfd., W.I.

Fish: Britain, U.S., W.I., Fr., S. Am.

Metals and Manf.:-- U.S., Britain.

Bacon, Hams, Beef :- Britain. Coal :- U. S., Nfd.

Furs: -Britain, U.S.

Apples, etc.: -Britain, U.S., Ger., Nfd.

Butter and Eggs :- Britain, U.S., Nfd.

Hay: -U.S., Great Britain, Nfd.

Leather :- Britain, Nfd. Flour :- Britain, Nfd., W.I.

Agricultural Implements :- Britain, Australia.

6. CHIEF IMPORTS :-

Cottons, Woollens, Silks, Linens:—Britain, U.S., Fr., Ger. Metals and Manf.:—Britain, Ger. Coal:—U.S.

Sugar and Molasses: -U.S., W.I., Ger., Spanish E. Ind.

Tea: - India, Ceylon, Japan, China. Wood and Manf.: - U. S., Britain.

Drugs and Dyes: -U.S., Britain, Ger., Fr., Turkey.

Fruits and Nuts :- U.S., Italy, Spain, Greece.

Paper, Books, etc.: - U.S., Britain, Ger., Fr.

Hats and Gloves:—Br., Ger., Fr. Tobacco:—U.S., W.I.

Fancy Goods: -Britain, U.S., Ger., Fr.

Rubber and Manf.: -U.S., Britain. Oils: -U.S., Britain.

Liquors :- Britain, Fr., Holland.

Leather and Manf.: -U.S., Br. Furs: -Br., Ger., U.S.

Glass :- U.S., Belgium, Britain, Ger.

Fish and Products:—Nfd., U.S. Corn:—U.S.

Coffee and Chicory :- Brazil, Britain, W.I.

Earthenware: Britain, Ger., U.S., Fr.

Clocks and Watches: -U.S., Switzerland.

7. CANADA'S TRADE RELATIONS.

-	ANADA'S TRADE R	
COUNTRY.	Exports to.	IMPORTS FROM.
Great Britain •	Lumber and timbe cheese, grain, cattle, fish, bacon and hams, fur, hay, leather, apples, butter, eggs.	r Manufactures, (wool- lens, cottons, silks, metals, carpets, hats, gloves), live stock, cutlery.
United States:	Lumber, logs and pulpwood, coal, fish, live stock, farm products, ores and metals.	Metals, leather, furs, drugs, hats, rubber, cotton, tobacco, hides, coal, corn, fruit.
Germany:	Grain and seeds, dried apples, hay, lobsters.	Manufactures (woollens, silks, metals, earthenware, furs, glass), sugar.
France:	Lumber, grain, hay, lobsters,	Earthenware, silks, woollens, cottons, gloves, fancy goods, wine and brandy, fruits and nuts.
Newfoundland:	Flour, grain, manufactures, butter, cheese, meats, coal.	Fish, fish oil.
West Indies:	Fish, flour, lumber,	Sugar and molasses, tobacco, coffee, fruit.
South America:	Fish, lumber, flour.	Sugar, coffee, veget- able, ivory.
China: Japan:	Cottons, lumber.	Tea, opium, rice. Tea, silk, rice, por- celain.

8. CANALS OF CANADA.

CANALS.	MILES	LOCATION.	WHY BUILT.
Sault Ste. Marie	1	Sault Ste. Marie	St. Mary Rapids
Welland	26	Pt. Colborne to Pt. Dalhousie	Niagara Falls
Murray	5	W.of B.of Quinte	Short Cut
St. Lawrence Canals— (1) Galops (2) Rapide Plat (3) Farran's Pt (4) Cornwall (5) Beauharnois (6) Soulanges (7) Lachine Ottawa Canals	4 11 11 14	Between Prescott and Montreal Prescott Morrisburg Morrisburg Cornwall Valleyfield Coteau Lachine to Mont'l	Galops Rapids Plat Rapids Farran's Pt.Rp's Long Sault Rp's (Coteau, Cedars,
(1) Carillon (2) Grenville		Above Cariflon Below Grenville	Carillon Rapids Long Sault Rp's
(3) Culbute	300ft.1	N.of Allumette	Waterfall
Rideau (1) Tay	6 F	Ottawa to Kingston Perth to Lake Rideau	
*Trent Valley		ia Trent River to Lake Simcoe and Georgian By	Short Cut
Shambly	12 0	n Richelieu R.	

^{*} Under construction.

RAILWAYS OF CANADA.

The following list includes only the great Canadian Railway Systems and the cities and most important towns on each.

I. CANADIAN PACIFIC RAILWAY SYSTEM.

MAIN LINE :-

Montreal, Hull, Ottawa, Carleton Junction, Amprior, Pembroke, Mattawa, North Bay, Sudbury, Port Arthur, Fort William, Kenora, Winnipeg, Portage la Prairie, Brandon, Regina, Medicine Hat, Calgary, Banff, Kamloops, Revelstoke, Vancouver, (Victoria, Nanaimo.)

IMPORTANT BRANCHES :-

Montreal to Windson:—Montreal, Kemptville, Smith's Falls, Perth, Peterborough, Toronto, Streetsville, Milton, Galt, Woodstock, London, Chatham, Windsor.

TORONTO TO OWEN SOUND:—Toronto, Orangeville, Owen Sound.

ORANGEVILLE TO TEESWATER:—Orangeville, Mount Forest, Harriston, Teeswater.

CARLETON Jc. TO BROCKVILLE:—Carleton Jc., Smith's Falls, Brockville.

OTTAWA TO PRESCOTT:—Ottawa, Kemptville, Prescott. Sudbury to Sault Ste. Marie:—(1) To Duluth; (2) To St. Paul, Minneapolis, Moose Jaw.

MONTREAL TO QUEBEC:—Montreal, Three Rivers, Quebec.

St. John, N.B., to Montreal:—St. John, Carleton, Sherbrooke, Lachine, Montreal.

McLeod to Edmonton:—McLeod, Calgary, Red Deet Edmonton.

CROW'S NEST BRANCH:—Medicine Hat, Lethbridge, McLeod, Kootenay, Nelson, Rossland.

II. GRAND TRUNK RAILWAY SYSTEM.

MAIN LINE :-

Detroit, Port Huron, Sarnia, St. Marys, Stratford, Berlin, Guelph, Georgetown, Brampton, Toronto, Whitby, Oshawa, Bowmanville, Port Hope, Cobourg, Trenton, Belleville, Napanee, Kingston, Gananoque, Brockville, Prescott, Cornwall, Montreal, St. Hyacinthe, Richmond, Sherbrooke, Portland, Me.

Sarnia, Wyorning, Strathroy, London, Woodstock, Paris, Brantford, Dundas, Hamilton, St. Catharines, Niagara Falls.

Chicago and G. T. from Port Huron to Chicago is really a part of the G.T.R. System.

IMPORTANT BRANCHES:-

LONDON TO DETROIT: -London, Glencoe, Chatham, Windsor, Detroit (Clicago).

Hamilton to Toronto: - Hamilton, Oakville, Toronto. GODERICH TO BUFFALO: -Goderich, Clinton, Seaforth, Mitchell, Stratford, Paris, Brantford, Caledonia, Dunnville Port Colborne, Fort Erie, Buffalo.

OWEN SOUND TO PORT DOVER :- Owen Sound, (Wiarton), Harriston, Palmerston, Listowel, Stratford, Woodstock, Simcoe, Port Dover.

LONDON TO WINGHAM: -London, Lucan, Clinton, Wingham.

BUFFALO TO KINGSCOURT JUNCTION :- Buffalo, Fort Erie, Welland, Cayuga, Simcoe, Tillsonburg, St. Thomas, Glencoe, Kingscourt Junction.

SOUTHAMPTON TO BRANTFORD :- Southampton, Walkerton, Harriston, Palmerston, Fergus, Elora, Guelph, Galt, Harrisburg, Brantford.

PALMERSTON TO KINCARDINE: - Palmerston, Listowel. Wingham, Kincardine.

Port Dover to Hamilton:—Port Dover, Caledonia, Hamilton.

Hamilton to Barrie:—Hamilton, Milton, Georgetown, Beeton, Barrie, (Branch—Beeton to Collingwood).

Toronto to North Bay:—Toronto, Barrie, Orillia, Gravenhurst, Bracebridge, Nipissing Jc., North Bay.

BARRIE TO MEAFORD:—Barrie, Collingwood, Meaford.
TORONTO TO PORT HOPE:—Toronto, Blackwater, Lindsay, Peterborough, Port Hope.

BLACKWATER TO MIDLAND:—Blackwater, Orillia, Midland.

PETERBOROUGH TO BELLEVILLE :- Peterborough, Hastings, Belle 'le.

CANADA ATLANTIC Ry.:—Parry Sound, Algonquin Park, Pembroke, Renfrew, Amprior, Ottawa, Alexandria, Coteau, Valleyfield, St. Albans, Vt.

III. INTERCOLONIAL RAILWAY.

Belongs to the Canadian Government.

MAIN LINE :-

Montreal, Richmond, Levis, Bathurst, Newcastle, Moncton, Dorchester, Amherst, Truro, Halifax.

BRANCHES :-

(1) Moncton to St. John.

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(2) Truro to Sydney, C. B.

IV. MICHIGAN CENTRAL RAILWAY.

Buffalo, Welland, Cayuga, Tillsonburg, St. Thomas Essex, Windsor, Detroit.

V. GRAND TRUNK PACIFIC RAILWAY.

PROPOSED COURSE:—Moncton, Quebec, Lake Abittibi, North of Lake Nipigon, Winnipeg, Saskatoon, Battleford, Edmonton, Dunvegan, Prince Rupert, (Port Simpson), opposite to Dixon Entrance.

VI. CANADIAN NORTHERN RAILWAY SYSTEM.

This network of railways is being extended as quickly as possible to open up our great "West."

MAIN LINE :- Port Arthur, Rainy River, Winnipeg, Portage la Prairie, Dauphin, Gilbert Plains, Sifton (Prince

BRANCHES :-

PEMBINA BRANCH: -- Winnipeg, Morris, Pembina.

Morris Branch: -- Morris, Brandon.

GILBERT PLAINS BRANCH: -Gilbert Plains, Grandview. (Edmonton).

PRINCE ALBERT Branch :- Regina, Prince Albert. Saskatoon,

CANADIAN NORTHERN ONTARIO RAILWAY: -Toronto, Beaverton, Bala, Parry Sound (Sudbury).

VII. TEMISKAMING AND NORTHERN ONTARIO RY.

Belongs to the Ontario Government.

North Bay, Temagami, Latchford, Cobalt, New Liskeard, Englehart, McDougall's Chutes, to connect with the Grand Trunk Pacific Railway in the vicinity of Lake

ONTARIO.

1. BOUNDARIES :-

EAST :- Quebec, Ottawa.

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South:—St. Lawrence, Ontario, Niagara, Erie, Detroit, Lake St. Clair, River St. Clair, Huron, St. Mary, Superior, Pigeon, Rainy, and Lake of the Woods.

NORTH: - English, Lonely, Joseph, Albany, James.

The land in the western peninsula is undulating and fertile, and is well suited for agriculture. The remainder of the province belongs nainly to the Laurentian region and is very rocky. It is studded with innumerable lakes, and the rivers are broken by numerous rapids and waterfalls. This renders them unfit for navigation, but valuable as waterpowers. This region is rich in minerals of various kinds, and the country is covered with forests of pine and spruce and other woods. It is also a veritable sportsman's paradise for fish and game.

3. RIVERS :-

Boundary:—Ottawa, St. Lawrence, Niagara, Detroit, St. Clair, St. Mary, Pigeon, Rainy, English, Albany.

INLAND RIVERS:—

INTO SUPERIOR :- Nipigon.

Into Georgian Bay: - French, Maganetawan, Muskoka, Severn, Nottawasaga.

INTO HURON: - Saugeen, Maitland, Aux Sables.

INTO ST .CLAIR :- Thames, Sydenham.

INTO ERIE :- Grand.

INTO NIAGARA :- Welland.

INTO ONTARIO: - Credit, Humber, Don.

INTO QUINTE: -Trent, Otonabee, Scugog.

INTO OTTAWA: -- Mattawa, Petawawa, Bonnechere, Madawaska, Mississippi, Rideau, Nation.

INTO JAMES BAY :- Moose, Abittibi.

4. LAKES :-

BOUNDARY: - Abittibi, Temiscaming, St. Francis, Lake of the Thousand Ids., Ontario, Erie, St. Clair, Huron, Superior, Rainy, Woods, Lonely, Joseph.

INLAND :- Nipigon, Nipissing; Muskoka, Rosseau and Joseph; Simcoe and Couchiching; Rice, Sturgeon, Balsam, and Scugog; Rideau; Mississippi.

5. BAYS :-IN SUPERIOR: -Thunder, Nipigon, Michipicoten.

In Huron: -- Georgian, Parry Sound, Matchedash, Nottawasaga, Owen Sound, Colpoy's.

IN ERIE :- Rondeau Har., Long Point.

IN ONTARIO: -Burlington, Toronto, Quinte. NORTH :- James.

6. CHANNEL :- North. 7. CAPES :-

In Huron :- Hurd ;

IN ERIE: Pelee, Aux Pins, Long Point;

In Ontario :- Petre, Traverse.

8. PENINSULAS :-

Bruce, Essex (Detroit), Niagara, Prince Edward, and "The Western Peninsula."

o. ISLANDS :-

Hunter's Id. in Rainy River District.

IN SUPERIOR: -Silver, Pie, Michipicoten, (Royale).

In Huron: - Manitoulin, Cockburn, St. Joseph, (Drummond).

In Georgian Bay :- Parry, Christian.

IN ST. CLAIR :- Walpole.

IN ERIE :- Pelee, Long Point.

IN NIAGARA: -(Grand, Navy, Goat-to U. S.)

In Ontario :- Toronto, Amherst.

In St. Lawrence: - Wolfe, Howe, Thousand Islands.

TN OTTAWA: -Allumette and Calumet-to Quebec.

10. CITIES :-

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TORONTO:—Capital; educational and publishing centre; port and railway centre; manufacturing—engines, agricultural implements, pianos and organs, ships, carpets, boots and shoes, leather, soap, etc.

Oгта wa:—Capital of Canada; railway centre; lumbering.

Hamilton:—Port and railway centre; manufacturing—machinery, agricultural implements, iron bridges, stoves, sewing-machines, cottons, woollens.

London: - Western railway centre; manufacturing - agricultural implements, engines, cars.

Kingston:—Port; manufacturing—locomotives, cars; iron smelting.

Brantford:—Manufacturing—agricultural implements, machinery, cottons, woollens.

Peterboro:—Railway and canal centre; manufactures—machines, implements, electrical appliances.

WINDSOR :- Railway terminus; trade with U.S.

St. Thomas:—Railway centre; railway work-shops.

Guelph; —Manufacturing—sewing-machines, pianos and organs, flour, —Ontario Agricultural College.

STRATFORD:—Railway centre; railway workshops; biscuits, furniture, trade in grain and cheese.

St. Catharines:—Manufacturing—flour, paper, ships; fruit.

Belleville:—Port; trade in iron ore, lumber, grain, and cheese.

Woodstock:—Railway centre; manufactures—furniture, organs, implements.

NIAGARA FALLS:—Scenery; manufactures; power-generating and distributing centre.

CHATHAM: -- Manufacturing -- engines, boilers, wagons; agricultural centre

11. COUNTIES AND COUNTY TOWNS :-

On Georgian Bay and Lake Huron.

Counties. Towns—County Towns First

Simcoe Barrie, Orillia, Collingwood

Grey Owen Sound

Bruce Walkerton, Kincardine

Huron Goderich, Seaforth

Lambton Sarnia, Point Edward, Petrolia

ON LAKE ERIE.

Essex Sandwich, Windsor

Kent Chatham
Elgin St. Thomas

Norfolk Simcoe Haldimand Cayuga

Welland, Niagara Falls

ON LAKE ONTARIO AND BAY OF QUINTE

Lincoln St. Catharines

Wentworth Hamilton

Halton Milton, Georgetown

Peel Brampton

York Toronto, Toronto Junction

Ontario Whitby, Oshawa

Durham and Northumberland Cobourg, Port Hope

Prince Edward Picton

Hastings Believille

Lennox and Addington Napance

ON RIVER ST. LAWRENCE.

Frontenac Kingston

Leeds and Grenville Brockville, Prescott, Kemptville

Dundas

Stormont, and Glengarry Cornwall, Morrisburg

ON OTTAWA RIVER

Prescott and Russell L'Orignal, Hawkesbury

Carleton Ottawa
Renfrew Pembroke

WESTERN INLAND COUNTIES

Middlesez London, Strathroy
Oxford Woodstock, Ingersoll

Brant Brantford

Perth Stratford, St. Marys, Mitchell, Listowel

Waterloo Berlin, Galt, Waterloo, Preston

Wellington Guelph, Elora
Dufferin Orangeville

EASTERN INLAND COUNTIES

Victoria Lindsay
Peterborough Peterboro
Haliburton Minden

Lanark Perth, Almonte, Smith's Falls

DISTRICTS AND CAPITALS

Muskoka Bracebridge
Parry Sound Parry Sound

Nipissing North Bay, Sudbury
Algoma Sault Ste. Marie
Thunder Bay Port Arthur

Rainy River Kenora

Manitoulin Manitowaning

12. PORTS :-

- On Superior:—Port Arthur, Fort William; Duluth, Superior.
- On St. MARY: Sault Ste Marie; Sault Ste Marie.
- On Michigan :- (Am.) Chicago, Milwauk ...
- On Lake Huron and Georgian Bay:—Algoma Mills, Killarney, Parry Sound, Midland, Penetanguishene, Collingwood, Meaford, Owen Sound, Wiarton; Saginaw, Bay City, Alpena.
- On St. Clair: Point Edward, Sarnia; Port Huron.
- ON DETROIT: Windsor, Sandwich, Amherstburg; Detroit.
- On Erie: Rondeau, Port Staniey, Port Dover, Port Colborne; Toledo, Sandusky, Cleveland, Erie, Buffalo.
- On Ontario:—Niagara, Port Dalhousie, Hamilton, Oakville, Port Credit, Toronto, Whitby, Oshawa, Bowmanville, Port Hope, Cobourg, Kingston; Charlotte, Oswego.
- ON QUINTE: -Picton, Trenton, Belleville, Napanee.
- On St. Lawrence:—Gananoque, Brockville, Prescott, Cornwall;
 Montreal, Quebec;
 Morristown, Ogdensburg.
- On Ottawa:—Hawkesbury, L'Orignal, Ottawa, Amprior, Pembroke; Hull.

BRITISH COLUMBIA.

1. BOUNDARIES :-

North :- Yukon, Mackenzie-60° N. lat.

EAST :- Alberta-120th Meridian and Rocky Mountains.

South: - United States, Haro Strait, Juan de Fuca.

WEST: - Pacific, Dixon Entrance, Alaska.

2. SURFACE AND NATURAL RESOURCES:-

The country is mountainous, and the scenery is grand beyond description. The minerals which include gold, silver, coal, and iron, are of untold value. The coast is bold and rocky, and has many little inlets which form valuable harbors. The rivers swarm with salmon. Fertile valleys extend along the rivers and near the coast. Dense forests of valuable trees cover a large part of the province, and numberless animals roam in the woods.

3. MOUNTAINS :--

RANGES: -- Rocky, Purcell, Selkirk, Gold, Cariboo, Peak, Coast, Cascade.

PEARS :-- Hooker, Forbes, Murchison.

Passes: -Kootenay, Crow's Nest, Kicking Horse, Pine River Pass, and Peace River Pass.

4. RIVERS:—Fraser, Thompson, Columbia, Kootenay, Skeena, Stickeen, Liard.

5. Lakes: -Kootenay, Upper and Lower Arrow, Okanagan, Harrison; Atlin, Teslin.

6. OCEAN :- Pacific.

7. GULFS AND BAYS :- Bute, Burrard, Portland Channel

8. STRAITS:—Juan de Fuca, Haro, Georgia, Queen Charlotte Sd., Hecate, Dixon Entrance.

9. CAPES :- Scott, St. James, Knox.

10. Islands:—Vancouver, Queen Charlotte, Texada.
11. Cities and Chief Towns:—

Victoria (Capital); Vancouver (Port: terminus of C.P.R.), New Westminster (Port: fish-canning, inland trade); Rossland (Mining); Nanaimo (Coal); Nelson, Esquimalt.

12. INDUSTRIES :-

Mining-gold, silver, coal, iron; lumbering, fishing, canning; farming, stock-raising; fruit-raising; fur trade—land animals and seals; trade and commerce.

MANITOBA.

1. BOUNDARIES --

NORTH :- Keewatin.

EAST :- Keev atin, Ontario.

South :- United States (49th Parallel).

WEST :- Saskatchewan.

2. SURFACE :-

The eastern part is rocky. The western part is mostly prairie with low hills in the west and south. Manitoba, Saskatchewan and Alberta form a succession of plateau terraces reaching to the foothills of the Rockies.

3. HILLS :-

(Or Mountains).—Pembina, Turtle, Riding, Duck.

4. RIVERS :-

Winnipeg, Red, Assiniboine, Souris.

5. LAKES :-

Winnipeg, Winnipegosis, Manitoba, Dauphin, Woods.

6. CITIES AND CHIEF TOWNS :-

Winnipeg-Capital; railway centre; headquarters for trade with the whole province.

Brandon, Portage la Prairie, Emerson, St. Boniface.

7. INDUSTRIES :-

Agriculture—grain-raising.

8. PRODUCTS :-

Wheat, octs, barley, potatoes.

QUEBEC.

1. Boundaries :- North :- Ungava, Labrador.

EAST :- Gulf of St. Lawrence,

South :- Chaleur B., New Brunswick, United States.

WEST :- R. St. Lawrence, R. Ottawa, Ontario, James Bay.

2. MOUNTAINS :-

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LAURENTIAN PLATEAU—Wotchish and Laurentian Hills. Appalachian System—Green, St. Anne, Notre Dame.

3. RIVERS :- The St. Lawrence River.

Ottawa, St. Maurice, Saguenay; Richelieu, St. Francis, Chaudiere; Coulonge, Gatineau, Du Livre, Rouge.

INTO JAMES BAY :- Rupert, East Main.

- 4. Lakes:—St. Francis, St. Louis, St. Peter; Two Mountains; St. John, Mistassini; Champlain, Memphremagog, Megantic.
- 5. GULFS AND BAYS :- St. Lawrence, Chaleur.
- 6. CAPES :- Gaspé, Father Poisit.
- 7. PENINSULA :- Gaspé.
- 8. Islands:—Allumette, Calumet; Montreal, Jesus, Perrot; Orleans; Anticosti, Magdalen.
- 9. CITIES AND CHIEF TOWNS :-

MONTREAL—Largest city in Canada; railway centre and summer ocean port; manufacturing of all kinds.

QUEBEC:—Capital; ocean port; oldest city and strongest fortress in Canada; manufacturing; trade.

Hull:—Manufactures—lumber, matches, paper, woodware.

Sherbrooke, Three Rivers, St. Hyacinthe, Valleyfield, Levis, Lachine, Fraserville, Joliette.

The magnificent and numerous waterpowers of Quebec make it a natural manufacturing centre.

 Industries: Lumbering, fishing, farming, m'f'g: trade and commerce; fur-trade: shipbuilding; Mining—copper, iron, silver, nickel, mica, asbestos.

NEW BRUNSWICK.

1. BOUNDARIES :-

NORTH: -Quebec, Restigouche, Chaleur.

East :- St. Lawrence, Northumberland.

SOUTH: - Nova Scotia, Cumberland, Chignecto, Fundy.

WEST: - Passamaquoddy, St. Croix, Maine, St. John.

2. RIVERS :-

Restigouche, Miramichi; Petitcodiac, St. John, (Tobique, Salmon, Canaan), St Croix.

3. LAKER :-

Grand.

4. GULFS AND BAYS :-

Chaleur; St. Lawrence, Miramichi, Verte; Fundy, Passamaquoddy, St. John Harbor, Chignecto, Shepody,

5. STRAIT :-

Northumberland.

6. CAPES :-

Miscou, Escuminac, Tormentine.

7. Isthmus :-

Chignecto.

8. ISLANDS :-

Miscou, Shippegan;

Grand Manan, Campobello, Deer.

9. CITIES AND CHIEF TOWNS :-

FREDERICTON :- Capital.

ST. JOHN: - Winter-port of Canada; trade and commerce; manufacturing.

MONCTON: - Headquarters of the Intercolonial Railway.

Campbelltown, Chatham, Newcastle; St. Stephen,

Milltown; Marysville, Woodstock.

10. INDUSTRIES: - Lumbering, fishing, ship-building; Mining, farming, manufacturing; trade and commerce.

NOVA SCOTIA.

1. BOUNDARIES :-

NORTH: -- Northumberland Strait, Gulf of St. Lawrence.

South-East :- Atlantic Ocean

WEST :- Fundy, Chignecto, Cum'erland. New Brunswick.

2. MOUNTAINS :-

Cobequid, North, South.

The surface is rocky, but to soil in the valleys is fertile. The coast is rocky and indention with many inlets.

3. RIVERS :-

All small. Annapolis; St. Mary, La Have, Liverpool.

4. LAKES :-

Rossignol, Bras d'Or (C.B.)

5. OCEAN :-

Atlantic.

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6. GULFS AND BAYS :--

St. Lawrence, Verte, St. George's; Chedabucto, Halifax Har., Bedford Basin, Margaret's, Mallone;

Fundy, St. Mary's, Annapolis, Minas Basin. Chignecto, Cumberland Basin.

7. STRAITS :--

Vorthumberland; Canso; Minas Channel, Digby Gut.

8. CAPES :-

St. George, North; Breton, Canso, Sambro, Sable; Split, Chignecto.

9. Isthmus:

Chignecto.

10. ISLANDS :-

Cape Breton, Madame, Boularderie, Pictou, Sable, Long.

11. CITIES AND CHIEF TOWNS :--

HALIFAX: - Capital; Canadian winter port; railway terminus; military post.

Sydney: - Coal, iron and steel works.

YARMOUTH, LUNENBURG AND LIVERPOOL: -Fishing, lum bering, ship-building.

Dartmouth, Annapolis, Truro, Glace Bay.

12. PRODUCTS:-

Minerals :- Gold, coal, iron, gypsum.

Fish :--

Fruit :- Apples.

13. INDUSTRIES :-

Fishing, lumbering, ship-building,

Farming, manufacturing, mining;

Trade and commerce.

PRINCE EDWARD ISLAND.

1. BOUNDARIES :-

NORTH AND EAST :- Gulf of St. Lawrence.

South :- Northumberland Strait.

2. GULFS AND BAYS :-

St. Lawrence, Hillsborough, Egmont, Richmond, Cardigan.

3. STRAITS :-

Northumberland.

4. CAPES :-

North, East, Bear, West.

5. CITIES AND CHIEF TOWNS:

CHARLOTTETOWN :- Ship-building; port; trade in farm produce and oysters.

Summerside, Georgetown.

6. INDUSTRIES :-

Farming, fishing.

7. PRODUCTS:--

Wheat, oats, barley, potatoes, oysters.

UNITED STATES.

CAPITAL WASHINGTON, D.C.

(1) NEW ENGLAND STATES.

STATES. An. CAPITALS. CHIEF PRODUCTS. Maine. Me. Augusta. Lumber, fish, ships. New Hampshire N.H. Concord. Manufactures. Vermont. Vt. Montpelier. Butter, cheese. marble. Massachusetts. Mass. Boston. Manufactures. Rhode Island. R.I. Providence Manufactures. and Newport. Connecticut. Conn. Hartford. Manufactures. (2) ATLANTIC STATES. New York. N.Y. Albany. M'f's, grain, cheese, salt. New Jersey. N.J. Trenton. Manufactures. Pennsylvania. Pa. Harrisburg. Coal, iron, coal oil, manufactures. Del. Dover. Fruit. Md. Annapolis. Fruit, oysters, coal. Va.

Delaware. Marvland. Virginia. Richmond Tobacco. North Carolina. N.C. Raleigh. Lumber, tar, turpentine.

South Carolina. S.C. Columbia. Cotton, Rice. Georgia. Ga. Atlanta. Cotton, m'i'rs. Florida. Fla. Tallahassee. Cotton, fruit.

(3) GULF STATES.

Florida. Alabama. Mississippi.

Ala. Montgomery. Cotton. Miss. Jackson. Cotton.

Louisiana. La. Baton Rouge. Cotton, sugar, rice. Tex. Austin.

Cotton, cattle, grain

Texas.

(4) EASTERN CENTRAL STATES.

Wisconsin. Wis. Madison. Michigan. Mich. Lausing. Illinois. Ill. Springfield. Indiana. Ind. Indianapolis. Ohio. Columbus. Kentucky.

Ky.

Lumber, grain. Lumber, salt, copper. Grain, stock, m'f'rs Grain, stock, coal. Coal, petroleum, grain. Tobacco, horses. Coal, iron, salt. Cotton, tobacco,

stock.

West Virginia. Tennessee.

Mississippi. Alabama.

(3) WESTERN CENTRAL STATES.

Frankfort.

W.Va. Charleston.

Tenn. Nashville.

North Dakota. N. Dak. Bismarck. South Dakota. Wheat. S.Dak.Pierre. Minnesota. Wheat. Minn.St. Paul. Nebraska. Wheat, flour, lumber. Neb. Lincoln. lows. Wheat, corn. Ia. Des Moines. Kansas. Wheat, corn, stock. Kan. Topeka. Missouri. Wheat, corn, stock. Mo. Jefferson City. Grain, iron, m'f'rs. Indian Ter. Ind.T. No Capital. Oklahoma Ter. Okla. Guthrie. Grain, live stock. Arkansas. Ark. Little Rock. Cotton. Texas. Louisiana.

(6) PACIFIC STATES.

Alaska Ter. Alas. Sitka. Seals, gold. Washington. Wash. Olympia. Lumber, fish, metals. Oregon. Ore. Salem. Fish, wool, stock. California. Cal. Sacramento. Fruit, wheat, wine, gold.

(5) ROCKY MOUNTAIN AND BASIN STATES.

Montana. Mont. Helens. Gold, silver, cattle. Wyoming. . Wyo. Chevenne. Gold, silver, cattle. Colorado. Colo. Denver. Gold, silver. New Mexico Ter. New M. Santa Fé Gold, silver. Idaho. Ida. Boisé City. Gold, silver. Nevada. Nev. Carson City. Silver, lead. Utah. Salt Lake City. Lead. Arizona Ter. Ari. Phoenix. Gold, silver.

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NOTE—Porto Rico, Hawaii (Sandwich Ids.), and the Philippines have been added to the United States.

CHIEF CITIES.

All over 100,000 by census of 1900.

1. Along the Atlantic—Boston, Worcester, Fall River, Providence, New Haven, Greater New York, Syracuse, Jersey City, Newark, Patterson, Philadelphia, Baltimore, Washington.

Greater New York—Largest city in America; great seaport; manufacturing.

PHILADELPHIA—Seaport; manufacturing.

Boston-Seaport; educational centre.

Baltimore—Seaport, trade in cotton, fruit, and oysters.

Washington—Federal capital; great public buildings.

NEWARK, JERSEY CITY, PROVIDENCE, WORCESTER, SYRACUSE, NEW HAVEN, FALL RIVER—Manufacturing.

2. On the Great Lakes—Chicago, Milwaukee, Detroit, . Toledo, Cleveland, Buffalo, Rochester.

CHICAGO—Railway centre; grain and lumber port; manufacturing.

CLEVELAND, BUFFALO, DETROIT, TOLEDO-Ports and railway centres; manufacturing; trade with Canada.

MILWAUKEE—Grain and lumber port. ROCHESTER-Manufactures.

3. In the Mississippi Basin—St. Paul, Minneapolis, St. Lauis, New Orleans, Memphis, Kansas City; Omaha, St. Joseph; Louisville, Cincinnati, Pittsburg, Scranton, Alleghany, Indianapolis.

St. Louis, Cincinnati—Railway centres; breadstuffs and provisions; manufacturing; river trade.

New Orleans, Memphis—Cotton and sugar ports; trade with the Mississippi Valley.

PITTSBURG, ALLEGHANY, SCRANTON-Manufacturing of iron and glass; coal.

MINNEAPOLIS, ST. PAUL—Lumber and flour.

Louisville-Tobacco market.

OMAHA, KANSAS CITY, Sr. JOSEPH-Grain and stock

Indianapolis-Railway centre; manufacturing.

Western Highlands-Denver, San Los Angeles, Seattle. Francisco,

SAN FRANCISCO—Seaport, trade with South America Asia and Australia; U.S. mint.

DENVER-Great mining centre; U.S. mint.

Los Angeles-Health resort; fruit.

SEATTLE—Lumber; port.

SOUTH AMERICA.



1. POSITION :-

From 10° N. lat. to 55° S. lat.

The greater part lies in the Torrid Zone.

Compare the latitude with that of Africa and Australia.

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2. BOUNDARIES :-

NORTH-Caribbean Sea.

East-Atlantic Ocean.

WEST-Pacific Ocean.

3. SURFACE AND DRAINAGE :-

THE GREAT WESTERN PLATEAU:-

The Andes System :-

RANGES-Three at north, two in centre, and one at south.

PEAKS-Antisana, Cotopazi, Chimborazo, Sorata, Illimani, Aconcagua, Antuco, Yanteles.

RIVERS-Magdalena; the others are short and rapid.

LAKES-Maracaybo, Titicaca.

THE EASTERN HIGHLANDS:-

The Brazilian Plateau :-

RANGES-Espinhaco, Mantiqueira.

IVER-San Francisco.

The Guiana Plateau :-

RANGES-Parima, Pacaraima, Tumuchumac.

RIVER-Essequibo.

THE GREAT CENTRAL PLAIN :-

Northern Slope :-

RIVER-Orinoco.

The Basin of the Amazon :-

RIVERS-Amazon, Para;

(a) Japura, Negro.

(b) Yucayale, Madeira, Tapajos, Xingu, Tocantins. Southern Slope :-

RIVERS-Rio de la Plata

Uruguay, Parana-Paraguay, Salado.

4. COAST FEATURES—WATERS :-

The coast line is almost unbroken.

- 1) OCEANS :- Atlantic, Pacific.
- (2) SEA :- Caribbean.
- (3) GULFS AND BAYS :-
- (a) Darien, Venezuela, Paria.
- (b) St. Mathias, St. George.
- (c) Arica, Guayaquil, Panama.
 - (4) STRAITS :-

Magellan, Le Marie.

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5. COAST FEATURES—LAND :-

These are few and small.

(1) CAPES :-

Gallinas, St. Roque, Frio, Horn, Blanco.

(2) Isthmus :-

Panama (Darien).

(3) ISLANDS:-

Leeward, Trinidad, Joannes (Marajo);

Tierra del Fuego, Staten, Falkland, South Georgia;

Wellington, Chiloe, Juan Fernandez, Chincha, Galapagos. REMARKABLE FEATURES.

South America, like the other southern continents, has a very simple mountain system, and the coast-line is almost unbroken. The two remarkable features of the continent are the Andes Mountains with their numerous volcanoes, and the Amazon River with its immense tide of water.

The Amazon is one of the greatest rivers of the world, both on account of its length and its volume of water, which indicates the abundance of the rainfall of the region. This depends on five conditions:—(1) the presence of the ocean; (2) the tropical situation; (3) the direction of the prevailing wind; (4) the presence of the mountains; (5) their great distance from the sea. The surface of the country is so level that the river has a fall of only a few feet in the last thousand miles of its course, and is navigable for thousands of miles.

6. POLITICAL DIVISIONS :-

COUNTRIES.	Gov'T.	CAPITALS AND CHIEF CITIES.
Brazil.	Rep.	Rio Janeiro, Bahia, Pernambuco
Argentine Rep.	Rep.	Buenos Ayres.
Chili.	Rep.	Santiago, Valparaiso.
Uruguay.	Rep.	Monte Video.
Paraguay.	Rep.	Asuncion.
Bolivia.	Rep.	La Paz, Sucre.
Peru.	Rep.	Lima, Callao.
Ecuador.	Rep.	
U.S. of Colombia.	Ren.	Quito, Guayaquil.
Panama.	Rep.	Bogota.
Venezuela.	Rep.	Panama, Colon.
Guiana :	reep.	Caracas, La Guayra.
British.	Col.	George
Dutch.	Col.	Georgetown.
French.	Col.	Paramaribo.
Falkland Ids. and	Br.Col.	Cayenne.
SouthGeorgia.	DI.COI.	Stanley.

The Products of South America.

Animals—Jaguar, puma, tapir, armadillo, anteater, condor, rhea, anaconda, cayman.

Animal Products—Hides, feathers, wool, llama wool, alpaca wool, tallow, mutton, fish, guano.

VEGETABLES—Coffee, cocoa, cotton, sugar, molasses, spices, fine woods, dye-woods, drugs, Peruvian bark, cocaine, ivory, wheat, flax, tobacco, india-rubber.

MINERALS—Gold, silver, copper, diamonds. emeralds, rubies, saltpetre.

7. EXPORTS AND IMPORTS :-

Country.	IMPORTS.	Exports.
Brazil.	Manufactures, grain, flour, coal, fish.	Coffee, sugar, cotton, woods, drugs, india- rubber, vegetable iv- ory, hides, diamonds, emeralds, rubies.
Argentine Republic.	Manufactures.	Mutton, tallow, wool, hides, wheat, flax, ostrich feathers.
Chili.	Manufactures, fish.	Copper, silver, saltpetre, guano, wheat, flour.
Bolivia, Peru and Ecuador	Manufactures, fish, flour.	Precious metals, india- rubber, Peruvian bark, cocaine, llama and alpaca wool, nitre, guano, vegetable ivory.
Colombia and Venezuela.	Manufactures, flour, fish.	Precious metals, emer- alds, coffee, cotton, tobacco, sugar, pana- ma hats, woods, india- rubber, medicinal plants.
Guiana.	Manufactures, flour, fish, lum- ber.	Sugar, molasses, coffee, tobacco, cocoa, woods, drugs, spices.

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PRASER'S ENTRANCE GEOGRAPHY.

EUROPE.



1. POSITION:

Europe is in the North Temperate Zone. . It is West of Ania and North of Africa. Compare the latitude with that of Canada; and account for the higher temperature of Europe.

2. BOUNDARIES:-

North-Arctic Ocean.

WEST-Atlantic Ocean.

South-Gibraltar, Mediterranean, Ægean, Dardanelles, Marmora, Bosphorus, Black; Caucasus Mts. EAST-Ural Mts., Ural River and Caspian Sea.

3. THE SURFACE:-

Europe forms the Western Part of the Eurasian Continent.

GREAT SOUTHERN PLATEAU:-

The Eurasian Highlands.

Axis—The Alps—the highest peak is Mount Blanc.

RANGES RADIATING FROM THIS CENTRE:-

Black Forest, Bohemian, Carpathian;

Dinaric Alps, Balkan; Caucasus;

Apennines;

Jura Alps, Cevennes, Pyrenees;

Cantabrian, Sierra Morena, Sierra Nevada;

Vosges.

Peaks—Blanc, Rosa; Cenis, St. Gothard, St. Bernard; Vesuvius, Etna, Stromboli; Olympus.

THE NORTHERN HIGHLANDS :-

RANGES-Ural, Scandinavian, Grampian.

PEAK-Hecla, in Iceland.

GREAT GENTRAL PLAIN—It runs east and west and is a continuation of the Siberian Plain.

(1) Part sloping to the north-west.

(2) Part sloping to the south-east.

4. DRAINAGE:-

GREAT CENTRAL PLAIN-

INTO THE ARCTIC-Petchora, Dwina.

INTO THE BALTIC SEA-Neva, Duna, Vistula, Oder.

INTO THE NORTH SEA-Elbe, Weser, Rhine, Thames.

INTO THE ENGLISH CHANNEL—Seine.

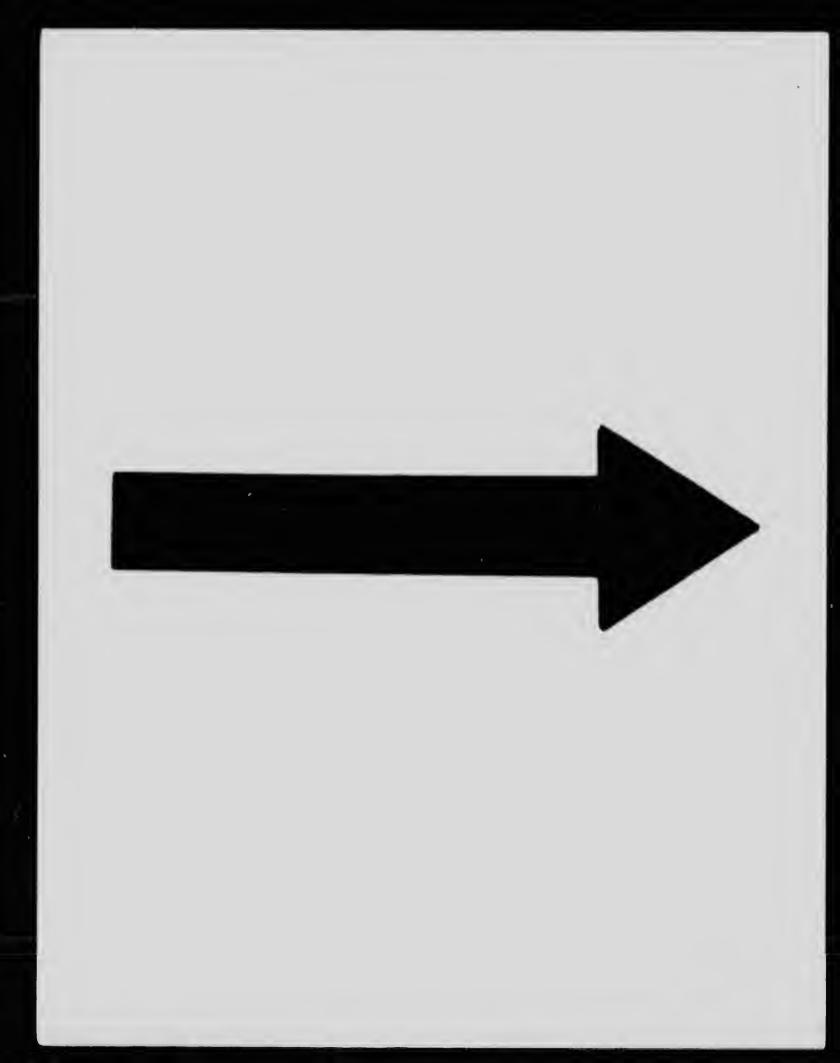
INTO THE BAY OF BISCAY-Loire, Garonne.

INTO THE BLACK SEA-Danube, Dniester, Dnieper.

INTO THE SEA OF AZOV-Don.

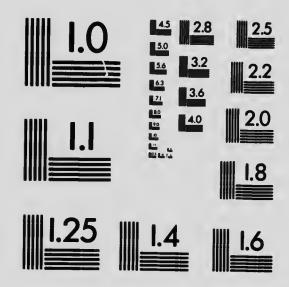
INTO THE CASPIAN SEA-Volga, Ural.

LAKES-Ladoga, Onega, Saima, Peipus.



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THE GREAT SOUTHERN SLOPE—

INTO THE ATLANTIC-Douro, Tagus, Guadiana, Guadal-

INTO THE MEDITERRANEAN SEA-Ebro, Rhone, Tiber.

INTO THE ADRIATIC SEA-Po.

INTO THE BLACK SEA-Danube-Drave, Save, Theiss.

LAKES-Geneva, Constance; Como, Maggiore, Garda.

THE NORTHERN HIGHLANDS-

RIVERS—These are short and unimportant.

LAKES-Wener, Wetter, Mælar.

5. COAST FEATURES—WATERS:--

Europe has the most broken coast-line of all the continents Notice the important influence this has on the climate and on navigation and commerce.

(1) OCEANS:

Arctic, Atlantic.

(2) SEAS:

(a) White, Baltic, North, Irish;

- (b) Mediterranean, Tyrrhenian, Adriatic, Ionian, Ægean, Marmora, Black, Azov;
- (c) Caspian—really a salt lake.

(3) GULFS AND BAYS :-

(a) Bothnia, Finland, Riga, Biscay;

(b) Lyons, Genoa, Taranto, Venice, Corinth, Salonica. Perekop.

(4) STRAITS AND CHANNELS :-

(a) Sound, Great Belt, Little Belt, Cattegat, Skager Rack, Dover, English, St. George's, North;

(b) Gibraltar, Bonifacio, Messina, Otranto, Dardanelles, Bosphorus, Yenikale.

6. COAST FEATURES—LAND:-

These form one-fourth of the Continent.

(1) CAPES :-

al-

- (a) North, Naze, Skaw, Wrath, Clear, Land's End, La Hague, Ortegal, Finisterre, St. Vincent, Trafalgar;
- (b) Passero, Spartivento, Matapan.

(2) PENINSULAS:-

- Scandinavia, Denmark, Spain and Portugal, Italy, Greece, Morea, Crimea.
 - (3) Isthmuses:—

Kiel, Corinth, Perekop.

(4) ISLANDS:-

(a) Nova Zembla, Loffoden.

(b) Gothland, Oeland—TO SWEDEN.
Aland, Dago, Œsel—TO RUSSIA.
Rugen—TO GERMANY. .

Zealand, Funen, Laaland, Bornholm-TO DENMARK.

(c) Iceland, Faroe—TO DENMARK.

British Isles—Great Britain, Ireland, Shetland, Orkney, Hebrides;

Man, Channel Islands.

(d) Balearic—Majorca, Minorca, Ivica; Corsica, Sardinia, Elba, Sicily, Lipari; Malta, Ionian, Crete, Cyprus• Eubœa, The Archipelago.

6. POLITICAL DIVISIONS.

FIRST RATE POWERS :-

GREAT BRITAIN AND IRELAND :- London, Liverpool, Manchester, Birmingham, Leeds, Sheffield, Bristol, Nottingham, Hull, Portsmouth, Cardiff.

Scotland: -Glasgow, Edinburgh, Aberdeen, Dundee. IRELAND :- Dublin, Belfast, Cork.

Russia: -St. Petersburg, Moscow, Warsaw, Odessa, Riga, Astrakhan, Nijni Novgorod.

GERMANY: -Berlin, Hamburg, Breslau, Munich, Dresden, Leipsic, Cologne, Hanover, Strasburg, Konigsberg, Magdeburg, Frankfort, Stuttgart, Dantzic.

FRANCE: - Paris, Lyons, Marseilles, Bordeaux, Rouen, Lille, (L'Isle), Toulouse, Toulon, Havre, St. Etienne.

Austria-Hungary :--Vienna, Buda-pesth, Prague, Trieste, Lemberg.

ITALY:-Rome, Naples, Milan, Turin, Genoa, Florence, Venice, Bologna, Leghorn, Palermo, Messina. SECOND AND THIRD RATE POWERS :-

Norway: - Christiania, Bergen.

Sweden :-Stockholm, Gothenburg.

DENMARK :-- Copenhagen.

HOLLAND OF THE NETHERLANDS :- The Hague, Amsterdam, Rotterdam, Utrecht.

Belgium :- Brussels, Antwerp, Ghent, Liege.

Spain: - Madrid, Barcelona, Valencia, Seville, Malaga.

PORTUGAL :- Lisbon, Oporto.

Switzerland: -Bern, Geneva, Zurich, Basil, (Basle).

Turkey: -- Constantinople, Adrianople, Salonika.

GREECE :- Athens, Piræus.

ROUMANIA :- Bucharest.

SERVIA :- Belgrade.

Montenegro :- Cettenje.

BULGARIA :- Sophia.

EUROPE.

7.—EXPORTS AND IMPORTS.

Country	EXPORTS	Imports
Great Britain	See p. 92.	See p. 92.
Russia	Grain, flour, live- stock, timber	Manufactures, coal tropical products
France	Silks, raw silk, lace,	Wool, silk, coal, cot ton, foods, coffee
Germany		Cotton, wool, silk fish, coffee, fruits
Austria-Hungary		Cotton, machinery leather, provisions
Italy	Silk, hats, maca- roni, sulphur, fruits	Coal, cotton, iron
Norway and Sweden	Fish, oysters, oils, timber, iron	Manufactures
Denmark	· · · · · · · · · · · · · · · · · · ·	Timber, sugar, to bacco, coffee, fruit
Holland and Belgium		Grain, timber, cot ton, wool
Spain and Portugal	Fruits, wine, ores, wool, cork	Manufactures, fish
Switzerland	Watches, clocks, toys, silks, cheese	Provisions, grain, spirits, cotton, silk
Greece	Currants, wine, figs, olive oil	Grain, cloth, provi
Turkey	Figs, raisins, silks attar of roses	Cotton and meta

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GREAT BRITAIN AND IRELAND.

Capital, London.

1. Position :-

Notice the insular character of these countries and their position as regards the Gulf Stream,

Notice the influence of these on the climate and on the occupations of the people.

2. Boundaries :-

East :- Horth Sea ;

South :- Str. of Dover, English Channel;

WEST :- Atlantic Ocean.

3. SURFACE :-

ENGLAND AND WALES: -- Mountainous in the north and west; hilly in the south; the centre and east a fertile plain.

SCOTLAND: - Mountainous in the north and west; hilly in the south; an undulating plain in the centre.

IRELAND: - Mountainous or hilly in the north, west and south; a plain in the centre.

4. BRITAIN'S EXPORTS :-

Consist of coal and manufactured goods in the following order of value :--cottons, woollens, and worsteds, hardware and cutlery, coal, machinery, linens, carpets, pottery, books, salt.

5. HER IMPORTS :-

Consist mainly of foods and material for manufacturing, including :- grain, sugar, tea, rice, spices, meats, cheese, fruits, nuts, butter and eggs, tobacco, wines and spirits; cotton, wool, silk, flax and hemp, timber, cabinet woods, teak, hides, petroleum, dyestuffs, drugs.

Where do these come from?

What parts of the British Empire could supply them in any large quantities?

ENGLAND AND WALES.

1. SURFACE:-

MOUNTAINS: - Cheviot, Pennine, Cumbrian, Cambrian.

PEAKS: -Skawfell, Crossfell, Skiddaw, Snowdon.

HILLS:—Malvern, Cotswold, Chiltern, Mendip, North and South Downs, Cornish Heights.

2. Drainage:-

RIVERS:—Tyne, Tees, Humber, Ouse, Trent, Welland, Great Ouse, Thames;
Severn, Avon, Wye, Dee, Mersey.

LAKES :- Derwentwater, Ulleswater, Windermere.

3. Coast Features—Waters:—

OCEAN :-Atlantic.

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SEAS :- North, Irish.

BAYS:—The Wash, Mounts, Barnstable, Swansea, Caermarthen, Cardigan, Caernarvon, Morecambe, Solway.

STRAITS AND CHANNELS:—Dover, English, Solent, Spithead, Bristol, St. George's, Menai.

4. COAST FEATURES—LAND:

CAPES:—Flamborough, Spurn, The Naze, N. and S. Foreland, Beachy, Start, The Lizard, Land's End, Hartland, St. David's, B...ich-y-pwll, St. Bees.

Peninsulas:—Norfolk and Suffolk, Kent, Devon and Cornwall, South West Wales.

ISLANDS:—Lindisfarne, Sheppey, Thanet, Wight, Scilly, Anglesey, Holy. (Channel, Man.)

5. CHIEF CITIES :-

Seaports:—London—Capital; largest city and greatest port in the world; great money market; Manufactures.

Liverpool, Bristol, Hull, Newcastle-upon-Tyne, Sunderland, Plymouth, Southampton.

Manufacturing Centres:— Manchester (cottons);
Leeds (woollens); Birmingham (hardware); Sheffield (cutlery); Bradford (worsteds); Leicester

(hosiery); Nottingham (hosiery, lace); Kidderminster (carpets); Hanley (pottery); Swansea (copper); Merthyr-Tydvil (iron); Cardiff (coal).

NAVAL STATIONS:—Portsmouth, Devonport, Chatham.
PLACES OF NOTE:—Cambridge, Oxford; Canterbury, York;
Greenwich, Woolwich.

IRELAND.

1. SURFACE :-

MOUNTAINS:—Donegal, Sperrin, Mourne, Wicklow, Knock-mealdown, McGillicuddy Reeks, Nephin Beg.

PLAIN: -The centre of the island.

2. DRAINAGE:-

RIVERS:—Foyle, Bann, Laggan, Boyne, Liffey, Slaney, Barrow, Nore, Suir, Blackwater, Lee, Shannon, Erne. LAKES:—Neagh, Erne, Ree, Derg, Mask, Conn, Killarney.

3. COAST FEATURES-WATERS :-

OCEAN :-Atlantic.

SEA :- Irish.

BAYS AND HARBORS:—Swilly, Foyle, Belfast, Strangford, Dundalk, Dublin, Wexford, Waterford, Cork, Bantry, Kenmare, Dingle, Galway, Donegal.

CHANNELS :- North, St. George's.

4. COAST FEATURES—LAND :-

Capes:—Malin, Fair, Howth, Carnsore, Clear, Mizzen, Dunmore, Loop, Slyne, Achil, Rossan.

Islands :- Rathlin, Cape Clear, Valentia, Aran, Archi.

5. CHIEF CITIES :-

Dublin—Seat of government for Ireland; educational centre—universities.

SEAPORTS: - Dublin, Belfast, Cork, Queenstown, London-derry, Limerick, Waterford.

Manufacturing Centres:—Belfast (linens); Londonderry (linens, flax yarn); Limerick (lace, gloves).

PLACES OF NOTE: -Killarney, Kilkenny, Valentia Id.

SCOTLAND.

1. SURFACE :-

MOUNTAINS: -Grampians, Highlands.

PEAKS :- Nevis, Lomond.

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HILLS: -Ochil, Pentland, Lammermuir, Lowther, Cheviot.

2. DRAINAGE -

RIVERS: - Spey, Dee, Tay, Forth, Tweed, Teviot, Nith, Clyde.

LAKES: -Lochy, Ness, Tay, Lomond, Katrine, Awe.

3. COAST FEATURES-WATERS:-

OCEAN: -Atlantic.

SEAS :- North, Irish.

BAYS: -Moray, Dornoch, Tay, Forth, Loch Linnhe, Clyde, Luce, Wigton, Solway.

STRAITS AND CHANNELS:—Pentland, Minch, Little Minch, Harris, Sleat, Mull, Jura, Islay, Kilbrannan, North.

4. COAST FEATURES—LAND :-

CAPES:—Duncansby, Tarbet, Kinnairds, Fife, St. Abb's, Wrath, Lewis, Aird, Cantire, Galloway, Burrow.

PENINSULAS :- Cantire, Wigton.

Islands:—Shetland, Orkney, Hebrides, Skye, Mull, Jura, Islay, Arran, Bute.

5. CHIEF CITIES :-

EDINBURGH:—The former capital, and a great legal, educational and publishing centre.

SEAPORTS:—Glasgow, Grzenock, Dundee, Aberdeen, Leith.
MANUFACTURING CENTRES:—Glasgow (ships, engines, textiles); Paisley (shawls, threads); Dundee (linens);
Ayr (carpets, blankets).

UNIVERSITIES :- Edinburgh, Glasgow, Aberdeen.

PLACES OF NOTE :- Stirling, Bannockburn, Culloden.

THE BRITISH EMPIRE.

Capital, London, England.

Area, 11,400,000 Sq. Miles. Population, 410,000,000.

The British Empire is the greatest empire the world has ever known—greatest in the vast area of which it is composed—greatest in the number of its component parts—greatest in the number of its subjects—greatest in the enterprise and loyalty of her sons and daughters and the liberty which they enjoy—greatest in its wealth and commerce—greatest in her naval powers and greatest in her influence for progress and righteousness within her own borders and among the nations.

The sun never sets on Britain's possessions. Her dependencies are in every clime. Her ships ride on every water. Her money is invested in every important enterprise. Her sons are found in every land. Her flag flies in every port, and she is associated with every good cause. Her market is the centre of the commercial and financial world, and the products of her factories are sold over every counter.

It is composed of (1) the Motherland, the United Kingdom of Great Britain and Ireland, (2) The Empire of India, and (3) The British Dominions beyond the seas. These numberless dependencies consist of protectorates, crown colonies and self-governing colonies, some having representative government and some having responsible government. Now it is proposed to unite these into one great commercial federation.

A Protectorate is a country under the protection of another, who guards it from foreign invasion and has some control in the management of its affairs.

A Crown Colony is one in which the crown has entire control in the making of the laws and the appointing of officers to carry on its government.

A Self-Governing Colony is one whose government is intrusted to its inhabitants to be carried on according to a constitution.

A Representative Government is one whose cabinet, or government, is assisted by representatives elected by the people.

A Responsible Government is one whose cabinet must have the support of the majority of the representatives

of the people to remain in office.

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Britain's security depends on the loyalty of her sons and the strength of her navy. She must guard the avenues of commerce to secure food for her people, raw material for her manufacturers, and markets for her wares. In every part of the globe she maintains fortified coaling stations and arsenals to supply the wants of any of her fleets, as well as dockyards for the repairing of her ships in case of injury.

THOROUGHLY FORTIFIED STATIONS:

Thoroughly Fortified Coaling Stations are maintained at Albany (W.A.), Auckland, Bermudas, Bombay, Cape Town, Colombo, Esquimault, Falkland, Freetown, Gibraltar, Halifax, Hong Kong, Jamaica, Malta, Mauritius, Thursday Island (Torres Strait), St. Helena, St. Lucia, Singapore, Sydney.

PARTLY FORTIFIED STATIONS:-

Partly Fortified Coaling Stations are maintained at Adelaide, Brisbane, Calcutta, Christchurch, Durban, Fiji, Hobart, Kutch, Labuan, Quebec, St. John's.

NAVAL DOCKYARDS :-

Naval Dockyards are at Antigua, Ascension, Bermuda, Bombay, Calcutta, Cape of Good Hope, Chatham, Devonport, Gibraltar, Haulbowline, Hong Kong, Malta, Pembroke, Portland, Portsmouth, Sheerness, Sydney, Weihaiwei, West India Docks.

THE BRITISH EMPIRE.

EUROPE :-

RESP:-Great Britain and Ireland.

REP :- Man ; Channel Ids.

CR :- Malta; Cyprus; Gibraltar.

NORTH AMERICA:-

RESP :- Canada; Newfoundland.

REP :- Bermudas; Bahamas; Leewards; Windwards;

CR - Jamaica; British Honduras.

SOUTH AMERICA :-

REP .- British Guiana.

CR :- Trinidad ; Falkland Ide, and S. Georgia.

A57A :--

CR :- India and Burmah; Ceylon; Straits Sttlements; Hong Kong; Labuan; Weihaiwei (Mil. St.).

PROT: - Cashmere, Nepaul, Bhotan, etc.; Beluchistan; Aden, Perim, and Socotra; Bahrein; British North Borneo; Sarawak.

AFRICA :-

RESP :- Cape Colony; Natal and Zululand.

REP :- Mauritius and Seychelles.

CR: - Sierra Leone; Gambia; Gold Coast; Lagos; St. Helena; Basutoland; Orange Liver Colony; Transvaal.

PROT: -Somaliland; Zanzibar; Iganda; Nyassaland; Bechuanaland; Rhodesia; Southern Nigeria; Northern Nigeria; Ashanti; Eastern Soudan; Egypt (Mil. Oc.).

NAVAL STATION :- Ascension.

OCEANIA:-

RESP: - Australia; New Zealand.

CR :- Fiji Ids.; British New Guinea.

PROT:-New Hebrides, Tonga, Cook, Pitcairn, Ellice, Gilbert, Phoenix, Norfolk, etc.

IMPERIALISM.

The Imperialists of the Empire are proposing that this host of nations should form themselves into a commercial or fiscal union, each offering a preference to the products of the sister nations, and each contributing a fair portion to the maintenance of the Empire.

Such a union would admit of the independence and integrity of each individual member in all local affairs, but a co-operation in those questions which affect the whole. It would encourage an exchange of commodities between those whose interests are identical and whose ideals are similar. It would furnish a market for the natural commodities each produces to advantage. Each would share in the security such a union would provide, and each would contribute a fair share of the expense incurred.

Britain to-day buys ten times as much foods and raw material as the colonies export; but the rapid settlement of these distant dependencies, and the marvellous development of their apparently limitless resources, give promise of a time when the British Empire may be self-dependent, the colonies supplying all the food the congested homeland requires, and as much raw material as her factories can use.

RAW PRODUCTS OF THE EMPIRE.

Arranged in order of importance.

COAL: -G.B., Ind., Can., Aust., Trans., N.Z., Nat., Cape.

IRON ORE :- G.B., Nfd., Can., Ind., Aust.

Pig Iron: -G.B., Can.

ds:

WHEAT: -Ind., Can., Aust., G.B., N.Z., Cyp., Cape, Natal.

RAW SUGAR:—Ind., Br.Guiana, W.I., Aust., Natal.

COTTON: -Ind., W.I., Malta, Cyp., W.Af., Cey., Aust.

WOOL: -Aust., N.Z., G.B., Cape, Ind., Nat., Can.

TEA :- India, Ceylon. Natal.

COFFEE :- India, Ceylon, West Indies.

ASIA.



1. Position, Extent, and Population:

a. From Equator to beyond Arctic Circle. Compare with the latitude of North America.

b. Forms the eastern part of Eurasia. Connected with Africa by the Isthmus of Suez.

c. The largest of the continents. Contains one-third of the land surface of the globe and more than one-half the people of the world.

2. BOUNDARIES :--

NORTH :- Arctic Ocean.

EAST :- Bering Strait, Bering Sea, Pacific Ocean.

South: -Indian Ocean.

West:—Bab-el-Mandeb, Red, Suez (Gulf and Canal), Mediterranean, Ægean, Dardanelles, Bosphorus, Black, Caucasus, Caspian, Ural River and Mountains.

3. SURFACE AND DRAINAGE :-

I. THE GREAT CENTRAL PLATEAU:-

Axis .- The Pamir-

RANGES RADIATING FROM THIS CENTRE:—Himalayas; Kuenlun, Peeling, Nanling; Thian Shan, Altai, Yablonoi, Stanovoi; Soliman, Western Ghauts, Eastern Ghauts; Hindoo Koosh, Elburz, Caucasus, Taurus; Ural.

PEAKS: - Everest, Elburz, Ararat, Sinai.

Passes: -Bolan, Khyber.

DESERTS: -The continuation of Sahara:

Arabian, Syrian, Great Salt, Turkestan, Gobi, Indian. PLATEAUS:—Iran, Pamir, Thibet, Gobi.

The mountains of Asia are the largest and the highest in the world. Most of the ranges run from east to west. They give shape to the continent, decide the direction and length of the rivers and affect the climate and products of the countries and the occupations of the people.

II. THE NORTHERN SLOPE: -

RIVERS:—Obi, Yenisei, Lena—through the tundras. LAKE:—Baikal.

III. THE EASTERN OR PACIFIC SLOPE :-

RIVERS:—Amoor, Peiho, Hoang-ho, Yang-tse-kiang, Canton, Mekong, Meinam;

They run through alluvial plains of great fertility.

They are navigable for great distances.

IV. THE SOUTHERN OR INDIAN SLOPE:-

RIVERS:—Saluen, Irawady, Brahmapootra, Ganges, (Hugli) Indus, Tigris, Euphrates-Shat-el-Arab.

V. CENTRAL BASIN :-

RIVERS-Oxus, Sihon, Ural-towards lakes below sea level.

LAKES: Balkash, Aral, Caspian—all without a visible outlet; water brackish or salty.

Note: The Jordan flows into the Dead Sea which is 1,300 feet below sea-level.

4. COAST FEATURES—WATERS.

Oceans :- Arctic, Pacific, Indian.

SEAS :- Kara;

Bering, Okhotsk, Japan, Yellow, China, Celebes, Java; Arabian ;

Red, Mediterranean, The Levant, Ægean, Marmora, Black, Caspian.

GULFS AND BAYS :- Obi ;

Anadir, Pechele, Tartary, Siam;

Martaban, Bengal, Manaar, Cambay, Cutch, Oman, Persian, Aden, Suez.

STRAITS AND CHANNELS :- Bering, La Perouse, Tartary. Corea, Formosa, Hainan, Macassar, Sunda; Malacca, Palk, Ormuz, Bab-el-Man-deb; Dardanelles, Bosphorus.

5. COAST FEATURES-LAND :-

CAPES: - Lopatka, Cambodia, Romania, Negrais, Dondra, Cormorin, Ras-el-Had.

PENINSULAS: - Kamchatka, Korea, Indo-China, Malay, Hindostan, Arabia, Asia Minor.

ISTHMUSES :- Suez, Kraw.

Islands :- New Siberia;

Aleutian, Saghalien, Kurile, Japan,—Yezo, Hondo, etc., Liukiu, Formosa, Hainan.

Philippine, Borneo, Java, Summatra, Singapore. Andaman, Nicobar, Ceylon, Maldive, Laccadive, Perim; Cyprus.

6. POLITICAL DIVISIONS :-

DIVISIONS.

Russia in Asia

Capitals and Chief Towns.

Tiflis, Bokhara, Khiva, Tobolsk,

Vladivostock

Chinese Empire Pekin, Tientsin, Shanghai, Foo-chow, Amoy, Canton, Hankow, Lassa,

Korea Seoul Japan Tokio, Osaka, Kioto, Yokohama

Indo-China:
Anam Hue

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Siam Bangkok Cochin China

Cambodia
Straits Settlements Singapore
Dutch East Indies Batavia
Philippine Ids. Manilla

India and Burmah Calcutta, Bombay, Madras, Hyderabad, Rangoon, Benares, Lucknow, Delhi, Agra, Mandalay, Cawnpore, Bangalore, Lahore, Allahabad.

Then 28 cities with a population of over 100,000, and 48 cities with a population of over 50,000.

Ceylon Colombo

Afghanistan Cabul, Herat, Candahar

Beluchistan Kelat

Persia Teheran, Ispahan, Bushire

Oman Muscat

Turkey in Asia Smyrna, Beyroot, Damascus, Aleppc Jersalem. Mecca

COMMERCE OF ASIA :-

Commerce is retarded by lack of means of transportation and the exclusiveness of some of the nations and religions. Railways are almost absent and trade is carried on by means of caravans and boats. The great Russian railway across the continent will be of immense importance commercially, politically, and for military purposes.

7. EXPORTS :-

Russia in Asia:—Minerals, furs, hides, tallow, grain, ivory.

CHINESE EMPIRE:—Tea, silk, wool, sugar, porcelain, fire-works, camphor, tobacco, lacquered ware.

JAPAN: Tea, silk porcelain, camphor, Japanese goods.

INDO-CHINA:—Cotto i, sugar, rice, gums, spices, dye-woods.

Dutch East Indies:—Coffee, sugar, spices, sago, guttapercha, camphor, dyewoods.

PHILIPPINE IDS: - Manilla hemp, spices, sugar, coffee.

India:—Cotton, opium, rice, wheat, indigo, hemp, jute, coal, iron ore, tea, sugar, coffee, wool.

CEYLON: -Tea, coffee, cinnamon, pearls, rice.

Persia :- Silks, shawls, carpets, dried fruits, pearls.

ARABIA :--Spices, coffee, gums, dates.

ASIA MINOR AND SYRIA :- Dried fruits, silk, oil, gums.

8. IMPORTS:-

CHINESE EMPIRE: -- Cottons, woollens, opium, metals.

JAPAN: -- Cottons, woollens, sugar, machinery.

India:—Precious metals, cottons, machinery, army supplies, clothing, foods.

The general imports of other countries are manufactures of cloth and metal goods.

APRICA.

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1. POSITION AND EXTENT :-

Extends about 35° on each side of equator. Most of the continent is in the Torrid Zone. Compare the latitude with that of South America and Australia.

2. BOUNDARIES :-

NORTH :- Str. of Gibraltar and Mediterranean.

EAST :- Suez, Red, Bab-el-Mandeb, Aden, Indian.

WEST :- Atlantic Ocean.

3. SURFACE :-

THE GREAT SOUTHERN PLATEAU.

THE NORTHERN PLATEAU.

THE GREAT CENTRAL PLAIN :- The Sahara.

THE COAST REGION which skirts the continent—low, narrow, unhealthy.

RANGES: -- Abyssinian, Lupata, Drakenberg, Nieuwveld, Cameroon, Kong, Senegambia, Atlas.

Peaks :- Kenia, Kilima Njaro.

DESERTS: Sahara, Nubian, Egyptian, Libyan, Kalahari.

THE SAHARA PLAIN consists of sandy and rocky bills, plains and depressions. Rain falls only on the highlands, and rivers are lost in the sand. The sky is cloudless so that during the day the heat is oppressive, and the nights are cold. Sand storms are prevalent. The Simoon, Sirceco, and Harmattan, are local periodic winds which blow from this desert region. In the oases where there is no rain, and where vegetation is sustained by underground streams of water, the date palm flourishes to perfection. carried on by means of caravans.

THE SOUTHERN PLATEAU comprises the whole of the southern part of the continent. Abundance of rain falls and gives rise to large lakes and all the great rivers of Africa. The northern part consists of grazing land. A dense forest covers the country for 10° on each side of the equator. The whole region is skirted by the ranges of mountains which extend from Abyssinia along the eastern, southern and western coasts.

THE NORTHERN OR BARBARY PLATEAU is a succession of terraces. It is well watered and very fertile.

4. DRAINAGE :-

Although the rivers are large, navigation is interrupted by falls and rapids, and by sand bars at the mouths.

RIVERS: - Nile (Sobat, Blue Nile, Atbara); Shari.

Juba, Zambesi (Shire), Limpopo.

Niger, (Benue), Congo and tributaries; Orange, (Vaal).

WATERFALLS :-

On the Nile:—ist, 2nd, 3rd, 4th, 5th and 6th cataracts and Murchison Falls.

ON THE ZAMBESI :- Victoria Falls.

On the Congo :- Stanley Falls.

Lakes:—Victoria Nyanza, Albert Nyanza, Dembea; Tanganyika, Bangweolo, Nyassa; Chad.

5. COAST FEATURES-WATERS :-

The coast is unbroken on account of the simplicity and direction of the mountain system.

OCEANS :- Altantic, Indian.

SEAS: - Mediterranean, The Levant, Red.

GULFS AND BAYS:—Cabes, Sidra, Suez, Aden, Sofala, Delagoa, Guinea, Biafra, Benin.

STRAITS AND CHANNELS:—Gibraltar, Bab-el-Mandeb, Mozambique.

CANAL :- Suez-"England's Key to India."

Port Said to Suez, 100 miles, cost \$100,000,000.

Notice its commercial and political importance.

6. Coast Features—Land:—

CAPES:—Spartel, Bon, Guardafui, Corrientes, Good Hope, Lopez, Palmas, Verde, Blanco.

PENINSULAS :- Somali.

ISTHMUSES: -Suez.

ISLANDS:—British—Perim, Socotra, Zanzibar, Mauritius and Seychelles, St. Helena, Ascension.

French-Madagascar, Reunion (Bourbon), Comoro.

SPANISH-Canary, Fernando Po, Annobon.

Portuguese-Azores, Cape Verde, Madeira, St. Thomas.

7. IMPORTANT POLITICAL DIVISIONS :-

7. AME	OKIANI POLIT	ICAL DIVISIONS :-
TOLOCCO	Fez, Morocco	Sultanate
Algeria	Algiers	French Possession
Tunis	Tunis	French Protectorate
Tripoli	Tripoli	Turkish Prov.
Egypt	Cairo	Trib of Taxal
Abyssinia	Adis Abeba	Trib. of Turkey
Somaliland	Berbera	Independent
Ger. East Africa	Dar-es-Salaan	British Protectorate
Zanzibar	Zanzibar	Communication.
Br. East Africa	Mombasa	British Protectorate
Unganda	Kampala	British Protectorate
Port. East Africa	Mozambique	British Protectorate
Nyassaland	Zomba	Port. Protectorate
Madagascar	Tananarivo	British Protectorate
Natal		French Possession .
Basutoland	Pietermaritzbu: Maseru	
Transvaal	Pretoria	British Col.
Orange River Col	Pleamfants	British Col.
Bechuanaland	Mossis -	British Col.
Rhodesia	Mafeking	British Protectorate
Cape Colony	Salishury	British Protectorate
Ger. S. W. Africa	Cape Town	British Col.
Congo Free State	Windhoek	German Col.
Southern Nigeria	Boma	Independent
Northern Nigeria	Calabar	British Protectorate
Dahomey	Zungeru	British Protectorate
Ashanti	Porto Novo	French Dep.
Gold Coast	Kumassi	British Protectorate
Liberia	Accra	British Col.
0:	Monrovia	Independent
Combi	Freetown	British Col.
Daniel Co. 14	Bathurst	British Col.
	Many	French Protectorate
astern Soudan	Khartoum	British and Egypt
		_83 Pr

8. COMMERCE :-

Africa has great natural resources and although the people are indolent and their methods of work inferior, the products are numerous and valuable. The European trading stations, which are established all along the coast, are frequented by native traders. Trade is carried on by barter.

The means of transportation include boats on the rivers, steamboats on the Congo and the Zambesi, caravans in the interior. Railways are being built at the north and the south. The "Cape to Cairo" railway scheme is progressing, and at the south a British railway reaches from Cape Town to Victoria Falls, on the Zambesi River, and at the north from Alexandria to Khartoum; while, in 1901, the Uganda Railway was completed from Mombasa on the coast to the shores of Victoria Nyanza. These will play an important part in opening up the country. The slave-trade is being suppressed; but the "gin-trade" is proving as great a curse—another form of slavery.

9. THE PRODUCTS INCLUDE:-

FRUITS:—Figs, dates, olives, tamarinds, oranges, lemons, bananas, pomegranates, European fruits.

GRAINS: - Wheat, rice, maize, barley.

PALM :- Dates, sago, oil.

Various:—Coffee, cotton, spices, dyewoods, gums, wool, ivory, hides, ostrich feathers, teak, rubber, beeswax.

MINERALS :- Gold, diamonds, copper, iron, salt.

MANUFACTURES :- Leather, silk, carpets, sugar, indigo.

10. IMPORTANT COMMERCIAL CITIES:-

CAIRO:—Inland and foreign trade, beauty, western civilization and education.

ALEXANDRIA :- Egyptian port.

Tunis:—Caravan, trade, exports—manufactures, grain, wool, fruit, ostrich feathers, gold dust, ivory.

FEZ: -Silks, lorther, carpets.

ALGIERS :- Grain, fruit.

TRIPOLI: -Good harbor, caravan trade; exports as Tunis. ZANZIBAR :- Ivory, copal gum, cloves, sugar, cotton, coffee.

CAPE Town: - Wool, hides, ostrich feathers.

Lagos :- Gold, palm oil, ivory.

JOHANNESBURG :- Gold. KIMBERLY :- Diamonds.

OCEANIA.

I. Australasia: - The larger islands, south-east of Asia. II. POLYNESIA: - The smaller islands, in the Pacific Ocean.

AUSTRALASIA :-

SUMATRA: - Dutch-Coffee, pepper, sugar, rice.

JAVA: - Dutch - Coffee, sugar, tea. rice, indigo, pepper, tobacco.

Borneo: - Spices, sugar, coffee, etc.

CELEBES :- Dutch-Coffee.

MOLUCCAS OR SPICE :- Dutch-Cloves, nutmeg.

TIMOR: - Spices, sugar, coffee, etc.

New Guinea: - Dutch, German, British - Tropical Prod.

NEW ZEALAND :- British-Wool, frozen meat, gold, butter, cheese, timber.

Australian Commonwealth—See page 112.

POLYNESIA :-

Ladrone (Ger.) New Hebrides (Fr.) Tonga or Friendly

Caroline (Ger.) New Caledonia (Fr) Cook (Br.)

Marshall (Ger.) Fiji (Br.) Society (Fr.) Bismark (Ger.)

Samoa (U.S., Ger.) Marquesas (Fr.) Solomon (Ger.) Phoenix (Br.) Hawaian (U.S.)

These islands are of volcanic, or of coral formation. Those of volcanic formation are high and mountainous and very fertile. The islands of coral formation are low, the rainfall slight, and the soil not very fertile.

They produce sugar, spices, cotton, fruit, rice, hides, wool, copra, etc.

AUSTRALIAN COMMONWEALTH.

Capital, Dalgety, in N. S. W.

1. Position:-

South-East of Asia:—In the Torrid and the South Temperate Zones. Compare the latitude with that of Africa and South America.

2. Boundaries :--

North: -Timor and Arafura Seas, Torres Strait.

East :- Coral Sea, Pacific Ocean.

South :- Southern Ocean.

WEST :- Indian Ocean.

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3. SURFACE.

Ranges:—The Great Dividing Range, Liverpool, Blue Australian Alps, Gawler.

PLATEAU :- The Eastern.

PLAIN :- The Great Central.

DESERTS: -Great Victoria, Sandy, Stony.

4. DRAINAGE :-

SOUTHERN SLOPE :-

RIVERS-Murray, Murrumbidgee, Darling.

THE CENTRAL DEPRESSION :- RIVER-Cooper.

Lakes—Gairdner, Torrens, Eyre, Amadeus—all without visible outlet.

5. Coast Features-Waters:-

OCEANS :- Pacific, Southern, Indian.

SEAS :- Timor, Arafura, Coral.

GULFS AND BAYS:—Carpentaria, Cambridge; Botany; Great Australian Bight, Spencer, St. Vincent.

STRAITS :- Torres, Bass.

6. COAST FEATURES-LAND :-

CAPES :- York, Howe, Wilson, South, Leeuwin.

PREINSULAS: York, Eyre.

ISLANDS :- Tasmenia, Lore Howe, Norfolk.

7. Political Divisions :-

STATES.	CAPITALS.	Products.
Queensland	Brisbane	Gold, wool, live stock
New South Wales	Sydney	meat, copper, tin, shells. Wool, coal, gold, wheat, fruit, silver.
Victoria	Melbourne	Gold, tin, copper, coal.
South Australia	Adelaide	Wheat, wool, copper, cat
West Australia	Perth	tle, horses, fruit. Gold, timber, wool, cabi-
Tasmania	Hobart	net woods. Sheep, wool, fruit, gold copper, silver, cabinet woods.

8. Exports:-

Wool (merino), hides, tallow, preserved meats; butter and cheese, wheat; gold, tin, silver, copper, coal; timber and cabinet woods, eucalyptus.

9. IMPORTS :-

Cloth, hardware, machinery, fish, spirits, tea, sugar.

NEW ZEALAND

Islands:-North, South, Stewart.

CITIES: -Wellington, Auckland, Dunedin, Christchurch. Exports: -Wool, frozen meat, grain, timber, gold, coal

SUPPLEMENTARY EXERCISES

POR FOURTH CLASSES:

Canadian History Notes, roc.

Ritish History Notes, roc.

Geography Notes, roc.

Physiology and Hyglene Notes, roc.

Exercises in Composition, roc.

Exercises in Grammar, roc.

How We are Governed, roc.

Mental Arithmetic Exercises, Part U., roc.

Exercise: in Arithmetic, roc; scherg edition with answers, roc.

Drill Arithmetic, rec.; teachers' edition, 13c.
Summary of Canadian Ristory in Verse, 3a.
Manual of Punctuation, roc.
Entrance Examination Papers for the Past Sive.
Years, 702.; or in loss of two or more, 7c.
Map of Canals, roc.

FOR FIFTH CLASSES:

Canadian History Notes, 10c.

British History in Brief, 3oc.

Astronomical and Mathematical Geography, 25c.

Hard Places in Grammar Made Easy, 3cc.

Geography, Notes, 2oc.

Exercises in Arithmetic, 10c. teachers' edition containing answers, 15c.

Mantal Arithmetic Exercises, Part II., 20c.

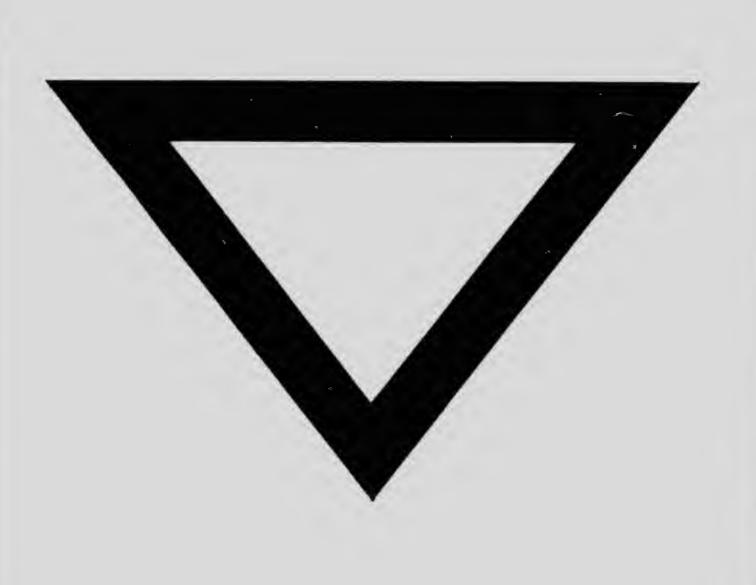
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Exercises in Composition, Icc.

How We are Governed, Icc.

Ennual of Punctuation, Icc.

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