## IMAGE EVALUATION TEST TARGET (MT-3)



Photographic Sciences

# CIHM/ICMH Microfiche Series. 

## CIHM/ICMH Collection de microfiches.



Canadian Institute for Historical Microreproductions/Institut canadien de microreproductions historiques


The Institute has attempted to obtein the best original copy available for filming. Features of this copy which may be bibliographically unique, which may alter any of the images in the reproduction, or which may significantly change the usual method of filming, are checksd below.


Coloured covers/
Couverture de couleur


Covers damaged/
Couverture endommagéeCovers restored and/or laminated/
Couverture restaurée et/ou pelliculéeCover title missing/
Le titre de couverture manque
Coloured maps/
Cartes géographiques en couleurColoured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)
Coloured plates and/or illustrations/
Planches et/ou illustrations en couleurBound with other material/
Relí avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distortion le long de la marge intérieureBlank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/ Il se peut que certaines pages blanches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces pages n'ont pas été filmées.Additional comments:/
Commentaires supplémentaire s:

L'Institut a microfilme le maillaur exemplaire qu'll lui a óté possible de se procurer. Les détails de cet exemplaire qui sont peut-etre uniques du point de vue bibliographiçue, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la móthode normale de filmage sont indiqués ci-dessous.

Coloured pages/
Pages de couleur
Pages damaged/
Pages endommagéesPages restored and/or laminated/
Pages restaurées et/ou pelliculéesPages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquéesPages detached/
Pages détachées


Showthrough/
Transparence
Quality of print veries/
Qualité inégale de l'impressionIncludes supplementary material/
Comprend du matériel supplémentaire
$\square$ Only edition available/
Seule édition disponible

Pages wholly or partially obscured by errata slips, tissues, etc., have been refilmed to ensure the best possible image/ Les pages totalement ou partiellement obscurcies par un feuillet d'errate, une pelure. etc., ont été filmées á nouveau de façon á obtenir la meilleure image possible.

This item is filmed at the reduction ratio checked below/
Ce document est filmé au táux de réduction indiqué ci-dessous.


The copy filmed here has been reproduced thanks to the generosity of:

Harold Campbell Vaughan Memorial Library Acadia University

The last recorded frame on each microfiche shall contain the symbol $\rightarrow$ (meaning "CONTINUED"), or the symbol $\nabla$ (meaning "END"). whichever applies.

Maps, plates, charts, etc., may be filmed at different reduction ratios. Those too large to be entirely included in one exposure are filmed beginning in the upper left hand corner, left to right and top to bottom, as many frames as required. The following diagrams illustrate the method:
The images appearing here are the best quality possible considering the condition and legibility of the original copy and in keeping with the filming contract specifications.

Original copies in printed paper covers are filmed beginning with the front cover and ending on the last page with a printed or illustrated impression, or the back cover when appropriate. All other original copies are filmed beginning on the first page with a printed or illustrated impression, and ending on the last page with a printed or illustrated impression.


L'exemplaire filmé fut reproduit grâce à lo générosité de:

Harold Campbell Vaughan Memorial Library Acadia University

Les images suivantes ont été reproduites avec le plus grand soin, compte tenu de la condition et de la netteté de l'exemplaire filmé, et en conformité avec les cor ditions du contrat de filmage.

Les exemplaires originaux dont la couverture en papier est imprimée sont filmés en commençent par le premier plat et en terminant soit par la dernière page qui comporte uns empreinte d'impression ou d'illustration. soit par le second plat, selon le cas. Tous les a stres exemplaires originaux sont filmés en commençant par la première page qui comporte une empreinte d'impression ou d'illustration et en terminant par la derniére page qui comporte une telle empreinte.

Un des symboles suivents apparaîtra sur la derniére image de chaque microfiche, selon le cas: le symbole $\rightarrow$ signifie "A SUIVRE", le symbole $\nabla$ signifie "FIN".

Les cartes, planches, tebleaux, etc., peuvent être filmés à des taux de réduction différents. Lorsque le document est trop grand pour être reproduit en un seul cliché, il est filmé à partir de l'angle supérieur gauche, de gauche à droite, et de haut en bas, en prenant le nombre d'images nécessaire. Les diagrammes suivents illustrent la méthode.



## BLEMEN'CS OF MNBMOTECHNIA.

Tbs fonndation of Mnemotechnia is tho English Alphabet. All the letters represent figures excepting $a, e, i, o, u, w, h$, and $y$. The vo mela and in never stand for figures. The letters that have similar sounds represent the same figare. The vowel $e$ is placed after each consonant to give uniformity of pronunciation. The Mnemotechnic Alphabet is easily learned by the

## AnALOGIEG RXIBTING BETWERN THE FORMS OF THE LETTERS AND TIGURES THEY REPRESENT.

$t$ formed with one upright mark represents 1
n formed with two marks stands for 2
ra formed with three marks stands for 3
$r$ is the fourth letter of the word four 4
L in Roman notation is $5 G$-which with the cipher off is 5
$J$ is a reversed 6 and slands for 6
k inverted mach résemblés a 7 Y 7
$t$ in writing very mach resembles an $8 \quad 8$
$\mathbf{P}$ 'is's Treversed 9 and statids for $\quad 9$
c beegtis the word cipher," and stanide for 0
The foregoing are the primitive letters. The other letters that sound nearly like them represent the same figures. Thus,
d sounds nearly like $t$ and represents 1
ch or che, sonnds nearly like je, and stands for 6
sh or stie, also sounde nearly like je, and stands for 6
zh or z is azure (zhe), is mach like je, and stands for 6
$g$ sott, as in genins, sounds like je, and stands for 6
$q$ sounde nearly like ke, and represents 7
g hard (ghe), as in geese, mach like ke, represents $\quad 7$ sounding nearly like fe, stands for . 8

s sounds like c in cipher,
7. sounds nearly like s and $c$
'Tie Alpifabet in Numerical Oeder.

The letter $x$ sounds like the two letters $k$ and $s$, (the word tax sounding as if written taks), and, as $k$ stands for 7 , and $s$ for $o$. $x$ stands for 70 .

Now, as words are composed of letters, and, as letters stand for figares, it tollows that words may be changed into figures, and figures into words. Changing words into figdres we call translation. After the Alplabet is thoroughly committed to memory the next thing to be learned is Articulation. To artioulate a word we pronounce every consonant in the word, with the vowel $e$ attor it.

EXAMPLES,


Rule I.-Words must be articulated and translated according "to the pronunciation, without regard to the spolling omittiog all silent letters.

Rule II-All short unimportant wards, like articles, propositions and conjunctions, that are printed in Italigs, are omitted when we translate phrases, \&ce, in which they are used.

Rule III. +N must be omitted in syllables in ng and s " in the


## EXAMPLIE:

| Knife | ne | 28 Wrat | re | 4. King | , |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Tal | te ke | 17 Song | seighe | 07 M | me | 35 |
| Rough | re fe | 48 Azure | zhe | 64 Cough | ke fe | 78 |
| Ready | re de | 41 Langb | le fe | 58 Axe | ke se | 70 |
| Badge | be je | 96 Ratio | re she | 46 Ring | re ghe | 47 |
| Nephew | ne fe | 28 Fight | fe te | 81 Gnat | ne te | 21 |
| Hand | ae de | 21 Wand | ne de | 21 Yearn | ren |  |

A tree with the leaf te re le.fe 1468: A boy's hat be te 91. Pen and ink pe ne ne ke 9227 . John's whip je ne pe 629.

## Application of Minemotechnia to Chronology.

Dates from History, as well as all other facts expressed in figures, as every student well knows, are difficult to commit to memory, and still moro difficult to retain. The roason is obvious. Memory depends upon Association, Combination and Comparison. Now there oan be no natural hesociation between an historical evont, for example, and the figures which express the date when it occurred; but we maj very easily find a word or phrase which, according to the preceeding Alphabet, will represent a date, and, at tho same time have a natural association with the ovent. Dates expressed in such words or phrases, therefore, are more ensily learned and more readily remembered than they could possibly be if expressed in figures.

For illastration, in reading British History, wo find that London was founded by the Romans A. D. 49. There being no natural connection between the figures 49, sud the founding of London, we may change these figures into a word, which has such a connection. Among the many words that may be found to represent 49 is the word Europe, which may be readily associated with the event, thus, London, founded by the Romans, is now one of the largest citios in "Europe" (re pe 49). In this way the learning of Chronology is reduced to a very enisy standard. Other effective principles of Mnemotechnic science will be evolved and elucidated as we procecd. We give now a number of examples upon the pinciple enunciated above.

Formulas for Events from Modern History.
The Cape of Good Hope was discovered by Bartholomew 1 iaz [A.D. while eailing on a DEAR VOYAGE 1486.
America was discovered by Christopher Columbus whoso vessels were probably of oak-not DRY PINE 149:.
The Reformation in Germany began by Martin Luther, and gave rise to many a TALL TALK 1517.
The lloyal Library at Paris was established by Francis I, in order have a place to

TELL the NEWS 15?
The Diet at Worms, was not held where worms live under a
SOD of LAND* 1521 .
The first voyage around the world was by Magellan, who sailed out of sight ot LAND $\dagger 1521$. The Jesuit's Order was tormed by Ignatius Loyola who wont on foot and begged his

DAILY MEAL 1585.

[^0]The Bible was first printed in English and illustrated by a [A.D. HOLY MAP 1539.
The English Ship that first sailed to India was probably commanded by an English LORD 1541.
Charles V. Emperor of Germany resigned his crown, which was the theme of DAILY EULOGY 1556.
The Royal Exchange in London was built, and looked like a TALL BLOP 1569.
Mary, Queen of Scots, beheaded, after she had grown weary of LIVING 1587.
The Bodleian Library was founded at Oxford, and reoeived many a $\quad$ TALL PUFF 1598.
The union of the Crowns of England and Scotiand, saved the two kingdoms a

HUGE SUM 1608.
Cape Horn was discuvered by LeMaire and Schouten of Holland, under the patronage of a DUTCH DOGE 1616.
The thirty years war commenced, when Gustavus Adolphus conquered many a

DUTCH THIEF 1618.
The Long Parliament of Britain assembled, the membera seating themselves in CHAlRS 1640.
Charles I. King of England was bebeaded, by an axe that was very

SHARP 1649.
The great plague in London, was more to be dreaded than confinement in a

HUGE JAII 1665.
The great fire in London, caused more confusion than would the blunders of a DUTCH JUDGE 1666.

The Habeas Corpus Act was passed, perhaps for releasing from prison sinme

JOCKEY BOY 1679.
The Revolution in England by William Prince of Orange; who inspired his soldiers with a

DUTCH FIPE 1688.
Captain Kid commenced his piracies in a
SHIP on the WAVE 1698.
Gibraltar was captured by the English, during a
GAY SEA WAR 1704.
St. Petersburg was founded by Peter the Great, who is styled the

GAY CZAR 1704.
'The Great Earthquake at Lisbon, pitched the whole city into a GULLY-HOLE 1755.
When LaPerouse made his last discoveries, he concluded to
TAKE a VOYAGE 1786.
When Napoleon was crowned Emperor of Franco he was a very distigulshed 1804.
Napoleon was defeated at Waterloo and banished to St. Helena, after he had

FOUGH' WELL 1815.
'The death of Napoleon at St. Helena was a SAD EVENT 1821.

Poland was subdued by Russia-the Rusoians orushing down [A.D. the Poles by war and

FAMINE 1832
The Reform Bill passed by the British Parliament, after it had cost considerable

HEAVY MONEY 1832
Queen Viotoria began her reign, and was as gentle as a
DOV免 and as MEEK 1837
China was opened to British intercourse, to prevent being
OVERKUN 1842
Lonis Philippe king of the French was dethroned, the new
Republic prvoing a 1848.
FIERY FOE

## Formulas for American Chronology.

The American Continenc was discovered by the Northmen who built a

HUT by the SEA-SIDE 1001
The St. Lawrence River was discovered by the French who sailed thither on the TALL SEA-WAVE 1508.
Mexico was conquered by the Spaniards under Cortez, who fought the Indians to obtain possession of their LAND 1521
Peru was conquered by the Spaniards under Pizarro, who went thither to

STEAL MONEY 1532.
The Amazon River was discovered by Francisco Oreleana a
celebrated Spanish
LORD
1541.
The Mississippi River was discovered by Fernando de Soto,
another Spanish
LORD 1541.
Printing was introduced into Mexico, after a printing prese had boen taken thither in a

TALL SHIP 1569.
Jamestown, Virginia, the first colony in New England, was bailt, and was the place of the Colonists' own

CHOOSING 1607.
Canada was first settled by the French, who sailed thither over the HUGE SEA-WAVE 1608. Hudson's River and Hudson's Bay were discovered by Hudson, when his crew left him on a SHEET of ICE 1610.
New York city was settled by the Dutch, and recorded by a
DUTCH AUTHOR 1614.
Slaves were first brought to the United States by the Dutch, who transported them in 1620.
Buston was first settled by a Colony under Blackstone, who went thither and built SHOWY HOMES 1630.
Harvard University, the first college in the U. States founded, without the aid of a

CHUM'S FEE 1638.
Philadelphia was founded by William Penn, who made a treaty with a CHIEF who was NIGH 1682.
The Misaisaippi River was first navigated by La Salle, who was not afraid to

DASH in the FOAM 1683.
The Witcheraft superstition prevailed in Now England, and [A.D.made people talk of a
WI'CCH and a PENNY 169:.
Yale College was founded at Nex Haven, and has some stu. dents who can write a DU'TCH POEM 1693.
The Boston News Letter, the first newspajer published in the United States, made every Yankeo a good GUESSER ..... 1704.
New Orleans was fonnded, and protected from the Mississippi by aPotatoes were firgt cultivated in the United States, and gaveemployment 10 many a GOOD BOY1719.
limn was destroyed by an earthquake that broke down houses with a ..... CRASH. 1746.
The identity of Lightening and Electricity was discovered byDr. Benjamin Franklin, while in Pennsylvania
COLONY ..... 1752.
The Bible was first printed in America, in the Massachusetts COLONY 1752.
Quebec, Ticonderoga and Crown Point, were taken from the French by the British-all at one ..... CIIP 1759.
Canada was ceded by the French to Britain, aftor it had cost them much CASH at HOME 1763.
The Continental Congress first met at Philadelphia, to adviseKing George to TAKE CARE

$$
1774
$$

The Revolutionary War commenced with Great Britain, when all the Soldiers had liberty to GO KIIL ..... 1775.
The Confederation of the Thirteen States was formed, to re- sist the ATTACK of the KING ..... 1777.Peace between Great Britain and the United States was made,and the independence of the latter acknowledged, whenthe Soldiers had leave toGO OFF HOME1783.
At the Death of Washington, he had a purer fame than the GAY POPE ..... 17 ©9.
The Royal Fannily of Portugal removed to Brazil, because of their own country they were HALF SICK 1807.
The Steamboats that first navigated the Mississippi and Ohio,ran up the stream against aHEAVY TIDE 1811.
At the Declaration of the war against England, the Ameri-cans engaged in a
FIGHT NEW ..... 181•.
The second Peace was concluded between Great Britain andthe United States, after aFIGHT and a WAR1814.'The Royal Faimily of Portugal returned from Brazil, at therequest of the- DIVINES 1820 .
Peru, Mexico and Guatimala were declared Independent,'choosing their own fortunes toDENEND 1821.

Brazil was erected into an Independent Empire, the Brazil- [A.D. lians building a throne that they might

VIEW the ENEMY 1823.
Texan was annexed to the United States, bidding Maxico a
final
The City'Mexico was taken by Gen. Scott, who shook the buildings by heavy,

FIRING 1847.

## Formulas for Discoveries, Inventions and Inprovements.

Paper first made of cotton rags, was of TWO SIZES 1000.
The Bank first established in Europe, was at Venice and was, secured by a

STOOT LOCK 1157.
The Mariner's Compass, when first known in Europe, was used to guide a

NEW SHIP 1269.
Gimpowder first made by Schwartu, while exploding produces
SOME NOISE 1320.
Cannons were first made by the French, and were used in
TIME of WARS 1840.
Muskets invented and first used in England, were often used in a

DEER HUNT 1421
Printing was insented by Faust, and is most certainly a
TRUE AR'T 1441.
The Post (Office first established in Europe, has conveyad many a

TREASURE 1464.
Printing introduced into England by Caxton, has furnished business for many a $\quad$ WORKER 1474.
(Canals in modern style first made in Europe, have since floated many a

RAFT 1481.
The Greek Language was introduced into England, and its progrese has since been very

RAPID 1491.
The Camera Obscura was invented, and used to reflect a figure of LIGHT on a WALL 1515.
The true theory of the Solar System was discovered by Copernicus who was a

HOLY MAN 1032.
The Silver Mines of Potosi were discovered by an Indian, who found a DOLLAR in a HILL 1545.

New Style was created by Gregory VIII. who set forward the days in that year to the number of

ELEVEN 158:.
The Newspaper first published in England, was not published on a

LEAF of IVY
1588.

The 'Telescope invented by Porta and Jansen shows the earth's orbit to "be an

ELLIPSE 1590.
Tea wan first introduced into Europe trom China, and was brought in á

TEA-CHEST 1301.

## The Thermometer was invented by Sanntorius, and is often [A.D. suspondéd in the SHADE of a HOUSE 1610. <br> Logarithms were invented by Napier, a SAGE AUTHOR 1614. <br> The Microscope invented by Jansen, enables us to see millions of animalculæ in a <br> WASH-TUB 1619.

The Barometer invented by Tarricelli, often foretells the
weather like \&
CHARM 1643.
The Steam Engine invented by the Marquis of Worcester, could have propelled a SHALLOP 1659.
The Differential and Integral Calculus was invented by Sir Isaac Nowton, a

SAGE CHAP 1669.
Air-balloons were first used by Mongolfier, who soared above the clouds, and thought it

GAY FUN 1782.
The Railroads first built in England, had cars that would OUT-WALK a BOAT 179I.
The money first coined in the United States probably was a
THICK-PENNY 179.
Steam first used to propel boats, made them ran faster than a
HEAVY SCOW 1807.
The Steam cars first used in England, went very SWIFTLY 1815. Gas first used for lighting streets in the United States, made the nights as light as a

FINE DAY 1821.
The Electro-Magnetic Telegraph was invented, that messages
might go by lightning, and 1832. The Sewing Machine, invented by Thimonnier, has needies as sharp as a

FORK. 1847.
We come now to a new and most effective principle in Mnemotechnia, namely that of Homophonic, (like sounding) analogies. It is used with very great advantage in remembering proper names. It may also be most successfully applied to all subjects in which figures are to be learned and remembered in connection with proper names, such as remarkable battles, latitudes and longitude of places, lengths of riverd, heights of mountains, chemical equivalents, \&c. This principle not only enables us to remember names more easily, but it alse gives us greater facility in constructing formulas; because we may often find an appropriate word or phrase to represent the figures to be remembered, that can be readily associated with the Homophonic analogy, but which cannot be associated with the name itself. The examples which follow will make our meaning plain. The student will see that the like sounding word or phrase is written below the proper name, and that the key word or words which represent the date, or other figures, are connected-not with the proper name-but with its homophonic analogy.

Formulas for Modern Baitles.
CLONTARF,
DUSTY YEAR [A.D.
A Clean Turf-is not seen during a DUSTY YEAR 1014. hastings,

Haste-is used by a HASTY and WISE JUDGE 1066. ASCALON,

Asikng a Loan-will enable one to pay a
DEBT of a PENNY 1192.
BANNOCKBURN,
A Banner is burned-during a CRECY.

Gresses-usually grow in a WET MARSH 1346. AGINOOURT,

An Agitated Court-expounds a SEVEN OAKS.

Seven Uak Trees-would make a good many RAILS 1450. CONSTANTINOPLE TAKEN,

Constantinople could not have been taken-if the walls had been laid with

WATER LIME 1453.
BARNET,
A Baronet-is not a title for one who is RAGGED 1471. BOSWORTH FIELD,

A Battle Field-is a place where there is many a
RIFLE 1485.
FLODDEN FIELD,
A Flood in a Field-does not happen in a LOW TIME 1513. MARIGNAN,
A. Marrying Man-usuelly obeys a LADY'S WILL 1515. SPANISH ARMADA DEFEATED,

Spanish Arms-are more fatal that a HOLLOW FIFE 1588. MARSTON MOOR,

A Marsh and a Moon-sound liko a
DASH and a ROAR 16.44. WORCESTER,

Worsteu-makes comfortable clothing on a
CHILLY DAY 1651.
BELGRADE,
A Great Bell-when it rings says DING DONG 1717. DETTINGEN.

Dirty Gin-is about as good to drink as THICK RUM 1743. FONTENOY,

A Funny Bou-admires every pretty
GIRL 1745.

## CULLODEN,

Clothing-is worn in various styles by the
GAY and RICH 1746.

LODI'S BRIDGE,
A Loaded Bridge-would not break down if made of
THICK BEECH 1796.

## RIVOLI.

A River-often flows through a
THICK BOG 1797:

## PYPAMIDS,

Under the Pyramids—travellers often enjoy a
S'IEAK of BEEF 1798.
Nile.
A Nail-is not as good to eat as
THICK BEEF 1798. HOHENLINDEN,

An O!d Linden-is grood timber for building EDIFICES 1800. AUSTERGTZ.

I he Austrians-were attadked by Napoleon with a FUSIL 1805. trafalank,

A Traveller-often travels on a
VESSEL 1805. bORODINO,

A Borrowed Dinner-is sometimes taken when a man asks a THIEF to DINE 1812. VITTORIA,

Victory-is often gained by those who
FIGHT at HOME 1813. WATERLOO,

The Battle of. Waterloo-was terribly : FATAi 1815. WARSAW;

A War of Sorrow-was that between the Russians and
Poles, that is so mucb
FAMED 1831.

## Formulas for Latitudes and Longitudes

In these formulas the key words give degrees.. If the minutes are less than 30 they are omitted; but if 30 or more the next higher degree is given. Thus we always obtain a result within 30 minues of accuracy, and generally much nearer. This is sufficiently accurate for finding a place on the map and for all ordinary purposes.

In the first division of the following examples all the places are in the Western Hemisphere, and in the second all the places are in the Eastern Hemisphere. This arrangement is a guide to the longitude, whether E. or W. A similar classification might be made in reference to latitude, but it would be inconvenient. The intelligent learner will seldom be at loss to know whether the latitude is North or South. In case of a doubt reference to a map may be readily had.

In translating the "key words," the two first articulationstand for latitude-all that remain for longitude. If the latitude is less than $10^{\circ}$, the first artiqulation gives a cipher.

Formulas for Latitudes and Longitudes of Places in the W. Hemisphere.
ALBANY, Lant. Long.

Albany Ale-is often transported in a RUM CAR $43 .{ }_{74}{ }^{2}$. BALTIMORE,

Lord Baltimore-settled in Maryland and made a

## BANGOR,

MAP for a KING 39. 77
A Bank of ore-contains moro mineral than a
ROYAL SHOP 45. 69.

## BOSTON,

The Boston Market-has WORN GATEWAY 42. 71. buenos ayres,

Puny Hares-or littlo rabbits,are not each so large as a MULE or a WOLF 35. 58. BUFFALO.

A Buffalo-rather live on a western prairie than
GAPE HORN,
Cape Horn-is not often visited by men fond of
LAW JUDGING 56.67
cape sable,
A Sable-is an animal that has a NAIL in his FOOT $25 . \quad 81$. dincinnati,

Cincinnatus-had a house better than the HOME of a BEAVER 39. 84.
COUNCIL BLUFFS,
A Councll of Chiefs-is where the attendants woar a KED BADGE 41. 96.
Cape
CAPE SAB
A Sab
CINCINN
Cincin
COUNCIL
A Co
DETROIT,
ROAM. in CUBA 43.. 79
EASTPOR'T.

Eastern Port Wine-causes many a ROYAL JOKE 45. 67. fort snelling,

Four Shillings-will procure admittance to the
ROYAL OPERA 45. 94.

## halifax.

ROYAL SHORE 45. 64 havana,
Havana Cigars-are as fragrant to a smoker as a
NEW MUFFIN 23. 82.
INDIANAPOLIS,
An Indian Apple.--is often eaten by a WEARY SAVAGE 40.86.
10WA CITY,
I owe a City-respect that establishes a
REIGN of PIETY 42. 91

## KINOSTON,

Lat. Loug.
The King's Town - is sometimes the residence of a
THIEF and $a$ KING 18. 77.

## LIMA,

Lime---is about the color of a
TIN GEWGAW 12. 77. MONTREAL.

A Country Hall...or farm-house is surrounded by a
RICH ACRE 46.74.
NEW ORLEANS,
Ihe Duke of Orleans $\cdots$ met with many MISHAPS 30. 90. PANAMA,

Panama Hats-are brought by a
pailadelphia,
Philadelphians.-.are opposed to every RASCAL 40. 75. NEW YORK,

A New 'Yoke-.-is often made of HARD HICKORY 41. 74. QURBEC,

1 he Citadel of Quebec-- is protected by a ROCK and $a$ GATE 47. 71.

## RICHMOND,

A Rich Man---is as independent as a MIFFY KING 38. 77.
RIO JANEIRO,
A Royal Joiner...likes to live in a
NEW MERRY HOME 23.43.
SAVANNAH,
A Savanna-is a plain that is trodden by
MANY a FOOT 32. 81.
SPRINGTIELD.
A Spring in a Field---will refresh HEROES or BOYS 40.90. WASHINGTON,

Gen. Washington-.-in battle could deteat a MOB or a KING 39. 77.
Formulas for Latitudes and Longitudes of Places in the E. Hemisphere.

## ALGIERS,

Algebra---is a science that has many a MAXIM 37. 3. ATHENS,

An Athaneum---is sometimes in possession of a.
MIFFY OWNER 38. 24.
BAGDAD,
If $a$ boy should bag his bad...he would put his MAMMA in a ROAR 33. 44.

## BERLIN,

A. Pearl--is a gem worth more than a

LAMB or a DIME 53.
13.

B ARNE.
Bains--is not so palatable a drink as
Lat. Long.
ARRACK of SACK 47. bOMBAY.

A BOMB...-is sometimes thrown on the TOP or a GATE 19. 71.

## BRUSSELS,

Brussels Lace...is not so durable as LEATHER 51.4. CAIRO.
A. Crow-...is otten seen catchiug

MICE IN A MEADOW 30. 31.
caloutta,
A Calculator-or mathematician cares little for the music of a

NEW MAY FIFE 23. 88.
CANTON.
A Canteen---is eften carried by soldiers, who meet an
ENEMY in the DAY TIME 23. 113.
CAPE OF GOOD HOPE,
A. Good Hope-..was feli when the olive branch was
brought by the
MERRY DOVE 34. CONSTANTINOPLE,

Constantine---had his brows adorned by a WREATH of NEW BAY 41. 29.
DUBLIN.
A Dumpling--would make a good dish for a LAME JEW 53. 6.
edinburgir.
A Red Bird-.-does not much resemble a
YELLOW GEM 56. 3.
GENEYA,
GIN.--is drark by many a
RICH JEW 46.6.
GIBRALTAR,
The Roci of Gibraltar---is MUCH or a Hill 365.
LONBON,
Londoners --often live in a LANE 52. 0.
MADRID.
A Mathon...often wears a
ROSARY 40.4.
MORROCCO.
Morrocco Shoes--are woru by MANY a WIFE 32. ROME.

A Room---is an agreeable place in a
RAINY TIME 42. 13
st. Petersburg,
St. Peter...enjoyed the confidence of the JOYOUS MESSLAB 60. 30 .
venice,
Vhinison...well cooked, is better than RAW WILD HONEY 45. 12.

Lat. Long.
A Vine-will not grow well in a ROUGH DITCH 48. If. Formulas for Lengths of Ruvers.
The lengths of rivers are given in hundreds of miles.
AMAZON,
Amizonians-are as brave ar
AMOUR,
A Moor-has a residence on the ARKANSAS,

An Ark and a Saw-ought not to be used on COLORADO,

Colidfed ale-is not as strong as $^{\text {a }}$ COLUMBIA, Miles. IIEROES 4000.

NILE 2500. SUNDAY 2100. TODDY 1100.

Columbus-had many a sail over the DANUBE,

The Danube River-is one into which one may take a GANGES;

In tue Ginges-the Hindoos often take a INDUS,

1NDUstry-is possessed by the desciples of the IRRAWADDY.

A River of Water-holds more than enough to fill a LA PLATIE,

A Plate-is scen in the bouse of every McK ENZIE,

McKenzie tie Explorer-found in his travels many a KNAVE 2800. MISSOURI,

Tha Missouri River-flows into the sea to find SEA ROOM 4300.*
SR, NIGER,

A Negro-has often ran away from his OWNER 2400. NIIE,

The Famous Nile - looks beautiful in the light of the ORONOKO,

An Cld Oak-ia larger than a
MOON 3200 . OHIO,

WIITE ASH 1600.
The Ohio River-is never
RED RIVER,
Red River Water-is not RIO GRANDE.

A Royal Grandee-is proud of his RHINE,

The River Reine - is not as rough as the SEINE,

A Fisming Seine-is pot strong enough to hold a
ST. LAWRENCE,
The St. Lafrence River-contains much.

## THAMES,

The Thames River-is not as large as the
DRY 1400.
SNOW WHITE 2100.
NAME 2300.
SEA Wave 800.
Whace 500.
WATER 1400.
SEINE 200 .

[^1]Heights of celebrated Mountains.
It intl be god exercises for the student now to construct formirias for the bigheat mountains, upon the same prinoipal as that which appligd tn length of rivers, only giving the beight in hundreds of feet. Every one who bae carefully studied the preceeding pages, is now fairly "on the track" and by praotice will be able to make the priucipies already elucidated and exemplafied a most efficient aid in the acquisition and retention of knowledge.

| ATNA in Sicly, | Feet. <br> 10900 |
| :---: | :---: |
| ANTISANA, EqUador, | 14300 |
| ararat, Armenia, | 12700 |
| BEN NEVIS, Scotland, | 4400 |
| BLANC. Switzereand, | 15900 |
| BROWN MOUN'TAIN, higiest of Rocky Muuntaine, N. A., | 16000 |
| CHIMBORAZO, Equadur, | 21400 |
| COTOPAXİ, Equador, | 18900 |
| dhaw alaghiri, Asia, | 26500 |
| GEESH, AFRICA, | 15104 |
| HECLA, ICELAND | 55011 |
| himalaya, Thibet, | 29000 |
| Jangarau, Alps, Smitzerland | 13700 |
| LEBANON, Syria, | 10000 |
| OLYMPUS. Grefce, | 6600 |
| PARNASSUS, GREECE, | 6000 |
| ST. BERNARD, Sivitzerland, | 3000 |
| ST. ELIAS. North America, | 17900 |
| PEAK OF T'ENERIFFE, Canary Isles, | 12000 |
| VesuViUS, Italy, | 3900 |

Fomenclature Table:

| 1 Hat | 21 Wind | 41 Road | 61 Sbadow | 81 Veto |
| :---: | :---: | :---: | :---: | :---: |
| 2 Honey | 22 Union | 42 Rhine | 62 Chain | 82 Fen |
| 3 Home | 23 Gnome | 43 Army | 63 Gem | 83 Fame |
| 4 Harrow | 24 Norway | 44 Orrery | 64 Chair | 84 Faro |
| 5 Hill | 25 Nile | 45 Oriole | 65 Jail | 85 Vale |
| 6 Watch | 26 Niche | 46 Russia | 66 Judge | 86 Fish |
| 7 Oak | 27 Yankee | 47 Rock | 67 Jug | 87 Fog |
| 8 Ivy | 28 Knife | 48 Roof | 68 Sheaf | 88 Fife |
| 9 Abbey | 29 Knob | 49 Rope | 69 Sbip | 89 Fup |
| 10 Woods | 30 Moose | 50 Lass | 70 Ale | 90 Poesy |
| 11 Tide | 31 Meadow | 51 Lead | 71 Gate | 91 Beauty |
| 12 Atna | 32 Moon | 52 Lion | 72 Gam | 92 Piano |
| 13 Tomb | 33 Mummy | 53 Loum | 73 Wigwam | 93 Balm |
| 14 Hydra | 34 Hammer | 54 Lgre | 74 Car | 94 Opera |
| 15 Italy | 35 Mill | 55 Lily | 75 Eagle | 95 Bell |
| 16 Ditch | 36 Mush | 56 Lash | 76 Cash | 96 Bush |
| 17 Wedding | 37 Hammock | 57 Lock | 77 King | 97 Book |
| 18 गove | 38 Muff | 58 Life | 78 Cave | 98 Beef |
| 19 Tub | 39 Map | 59 Lobby ${ }^{\text {c }}$ | 79 Cape | 99 Boeby |
| 20 Noose | 40 Iris | 60 Watoh-house | 80 Vase | 100 Diocese |

This table muat be thoroughly committed to memory. Subjeotn, whether names, rulee of science, or any other may be eacily associated with the worde ia the ordor io which they atand, and then, as the miod runs upon the table each word will onggest the name or other aubjeot whioh was associated with it. Oral instruction will be given to clacees by tho author, in whioh the great utility of this at well as other prisoliples of the science will be more fully elucidated and exemplifiod.



[^0]:    * Of course a cipher on the left is of an account.
    $\dagger$ If the first artioulation in the formulas for Modern Events does not represent a Gigure 1, then that figare mast be prefixed to the translation, to complete the date.

[^1]:    * The Mississippi is included.

