ALGEBRA.

1. Reduce $\frac{\frac{a^2+b^2}{b}-a}{\frac{1}{a}-\frac{1}{b}} \times \frac{a^2-b^2}{a^2+b^2}$ to a simple fraction and

lowest terms, a

a x + b y = l c y + d z = m e x + f z = n

8. The units digit of a number exceeds the tens digit by 2; and if the number, increased by 6, be divided by the sum of its digits,

the quotient is 5. Required the number. Find the Greatest Common Measure of $3x^3 + x^2 + x - 2$ and

4. Find the Great $2x^3 - x^2 - x - 3$.

5. Solve the equation

$$x - \left(\frac{1-x}{4} - \frac{1+x}{2}\right) = \frac{x+3}{2}$$

6. A fraction which is equal to $\frac{2}{5}$ is increased to $\frac{8}{11}$ when a certain number is added to both its terms, and is diminished to g when the same number plus one is subtracted from both. Find the fraction.

GEOMETRY.

1. Define Area, and write a note on the term equal as applied by Euclid to Geometrical figures.

2. If two triangles have three sides of the one equal to the three sides of the other, each to each, the triangles must be equal in all respects.

3. If one angle of a triangle be equal to the sum of the other two the greatest side is double of the distance of its middle point from the opposite angle.

4. To a given straight line to apply a parallelogram which shall be equal to a given triangle, and have one of its angles equal to a given angle.

5. Two straight lines are drawn to the base of a triangle from the vertex one bisecting the vertical angle and the other bisecting the base. Prove which is the greater of the two lines.

6. To divide a given straight line into two parts, so that the rectangle contained by the whole and one of the parts shall be equal to the square on the other part.

7. Construct a triangle, having giving the base, the difference of the angles at the base, and the difference of the remaning sides.

SCHOOL SYSTEM AND SCHOOL MANAGEMENT.

1. Specify the most important points of business transacted at the Annual School Meeting.

2. State fully what conditions as to marks you must fulfil in order to obtain : (1) the grade of license applied for; (2) the next lower grade; (3) the second below the one applied for.

8. Make a programme for o: e day's work in a miscellaneous school with no pupils beyond the Fifth Grade, or a similar pro-gramme for a department consisting of Grades IV and V. (Do not attempt both.)

4. Define the term class as used in connection with school work and state as fully as you can the principles underlying successful class management.

5. Specify the means you could employ to secure best results possible from written exercises in school.

TEACHING,

What do you understand by a topical recitation? Lay down rules for conducting one.

2. Give notes of a lesson in Arithmetic designed to illustrate the distinction between true and bank discount.

3. Show the method by which you could teach a beginner in Geography to draw the Map of North America. What are the prin-cipal objects to be kept in view in map drawing?

Describe how you would have children prepare for a recitation in history, and how you would conduct the recitation itself.

5. State what you judge to be the proper method of dictating a paragraph for the purpose of teaching spelling, and how you would have such an exercise corrected.

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THIRD-CLASS LICENSE (Grade D).

GEOGRAPHY.

1. Name the countries in which the following animals are found native: elephant, musk ox, wolf, alligator, walrus, monkey, beaver, reindeer, camel, white bear, lion and crocodile.

2. State the direction in which the following rivers flow, the waters into which they empty, and also any cities in their banks : Ottawa, St. John, Richelieu, Saguenay, Hudson, Missouri, Thames, Khine, Danube, Rio de la Plata, Zambesi, Euphrates, Ganges.

3. Define island, cape, mountain, bay, strail, lake, river, and when you can, give two examples of each from each of the continents.

What countries are separated by the following waters : Niag-4. ara, Behring's Straits, Baltic, Biscay, Red Sea, Strait of Malacca, Mozambique Channel, Bass Strait? What do the following con-nect: Isthmus of Suez, Strait of Gibraltar, Isthmus of Panama, Strait of Babelmandeb, Strait of Dover, Davis Strait?

5. Describe the river system of Quebec, and name the coast waters and Islands of Scotland.

6. Write a note on British Columbia, its physical features and climate, and give the boundaries of the counties of Annapolis and Pictou.

7. Describe the surface of the United States.

8. Write a short description of Japan, its position, climate, people and trade.

9. Draw an outline map of New Brunswick.

HISTORY.

1. Montion the leading events in the reign of Stephen.

2. Describe the character of any two of the following sovereigns: Richard II, Henry VII, Charles I, William III, Edward III.

In whose reign did each of the following events happen: 8. The Sikh war, Battle of Navarino, Battle of Plassey, The French Revolution, Great Plague, Treaty of Utrecht, Gunpowder Plot, Battle of Flodden, Capture of Calais, Battle of Bannockburn, The first Crusade, Mise of Lewes, Battle of Alma ?

4. Write a brief note on any one of the following: Duke of Marlborough, Wm. Pitt, Lord Nelson, John Wilkes.

5. How was Nova Scotia disposed of by the following treaties: St. German-en-Laye, Breda, Utrecht?

6. Name as many Governors of Nova Scotia as you can, and tell the period when each administered the government of the Province.

7. Write a full note on the introduction of Responsible Government into Nova Scotia.

How did the war of the American Revolution affect Nova Scotia both during its progress and by its results?

COMPOSITION.

1. Combine the following statements into a simple sentence:-

We looked at Mt. Marcy for the last time.

We looked at it from our hotel.

We were then awaiting the arrival of the stage.

The stage was to carry us to Plattsburg.

2. Write sentences in which the following words are used : sit. set, too, there, peace, way, him, rise, raise and also a sentence in which quotation marks are correctly used.

8. Correct or justify : Between he and she, there is some difference of opinion, but none between you and me. She was the youngest of two sisters. Her and her mother are coming here The country looks beautiful now. In piety and virtue consists the happiness of men. James speaks slow and distinct. Those which say I have not don't know.

4. Change the following stanza into prose :

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Our bugles sang truce, for the night-cloud had lowered And the sentinel stars sot their watch in the sky; And thousands had sunk on the ground overpowered, The weary to sleep and the wounded to die.

5. Write a note to a friend inviting him to spend the holidays with you.

BOOK-KEEPING.

1. Explain the following terms : acct, bal, pd, recd, %, E. & O. E., cheque, due bill, remittance.

2 (1) Write a receipt on account, (2) a receipt in full, (3) an order for goods.

3. Make out a grocer's bill, containing twelve debit entries and six credit ones; receipt the bill for balance. 2

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