# SUPPLEMENT. 

## TEACHER'S COLUMN.

Devoted to The Interest of The Provincial Teachers.
In Which We Publish the En-
trance, Monthly and Final Examination Papers Used in the Normal School
This Colnmi is open For Communteations,
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Owing to the demand for last week's issue containing the examination papers given in the Normal School we republish them again this week by request. The teachers will please remember that this column is open for all communications from them concerning school matters and its success will depend largely upon the teachers: Address all communications to P. O. Box 315 .

## Profensional Knowledge

SENIORS. Time 2 hrs 1. What are the sources from which a Weacher's knowledge of his profession is to be show their relation to each other
2. Why is a knowledge of Psychology a ecessary part of a teacher's preparation
3. Trace, in a general way, the development of mind from infancy to (say) the age of fifteen years.
4. Attention. -What is it? Its conditions? Its value in education?
5. What part is played by the senses in (a) The development of mind, and (b) the acquisition of knowledge? Which are the most valuable senses from the point of view of education and why?
6. The Memory-its functions-its eduational value-kinds of-conditions of its proper development.
7. What is the essential process in Reasoning? At what age does a child begin to reason? Trace the unfolding of this faculty as far as you have studied it
8. Distinguish between Inductive and Deductive Reasoning.
9. Explain the scientific basis of the following maxims of method viz-"We learn to do by doing" "Teach the abstract through the concrete" "Step by stepstep after step" "The normal order in teaching is See, Know and Do."

Physies and Chemistry.
Senior. Time 2 hrs.
Any four of the first six and the last wo questions make a full paper.
1.-(a)Account for the attraction of pieces of paper and metallic foil by an electrified glass rod. (b)Account for the formation of icicles and for their obconical form.
2.-(a)Explain the action of the instru-ment-a bottle half full of water with a tube running in through the cork, force air in and water will come out in jets. The canse? (b) Calculate the specific gravity of mercury from data obtained in your Physic lessons and explaln the operation.
3.-(a) Account for the rise and fall of the mercury in the therometer and barometer respectively, and show what the rise and fall indicates in each case (b) Why is a vaccum in each of the aforementioned instruments necessary? How would the action be affected if an opening were made in the vaccum so as to establish communication with the at mosphere.
4.-(a) Why does heating the lower portion of a body of still water destroy its equilibrium? Why does cooling the water at the upper surface destroy its equilibrium also? Explain fully and mentio. 1 natural penomena (of frequent occurrence in many parts of the earth) depend ent upon each of the facts explained. (b) Why is it possible for some insects to walk upon the surface of harooks and ponds.
5.-(a) A body floats on water with two thi:ds of its volume below the level fie waters surface. Determine the specific gravity of the body. Exhibit
the course of reasoning by which you
reached the determination. (b) What
of tollowing persons, Cyrus the great kind of therometers hang on the walls o I, Lycurgus.
the class rooms in this tuilding? How 2. Give a brief outline of the principle can you tell by the instruments themselves?
6.-(a) Make a drawing of a force pump and fully explain its action (b) pump plain the fact that a hot lamp chimney plain the when drop of cold water falls on crack

## Chemistry.

.-(a) Write the reactions that occur when aqua ammonial anu nitric acid are mixed and when canstic potash and names and formulas.) (b) Write the
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## TO THE TEAGHERS

The Proprietor of THE "FREDERICTON GLOBE" being desirous of increasing his circulation, and at the same time making the "GLOBE"

## A BENEFIT TO EVERY TEACAER,

in the Province, will open a Teacher's column, where any who wish may have the privilege of expressing any views they may have, to further the cause of education, and make such suggestions as they deem advisable to better the present school system.
The GLOBE will publish the Monthly Examination Papers, as well as the Final, given in the Normal School, thereby giving those teachers who propose returning for a higher class, every advantage, by placing before them each month, the work that is carried on in the Normal School, and also the Entrance and Final Examination Papers.
Feeling that by so doing the proprietor will be making the GLOBE particularly interesting for the teachers

## TAROHGHOUT THE PROVINCE,

and as our teachers' column will be open to all, and contain articles of special interest to every teacher, we wish the assistance of all the eachers, to aid in greatly increasing our circulation, and by so doing add names to the subscription list of the paper advocating the interests of our provincial teachers.
We offer the following inducements to teachers: Every taacher sending in One new subseription will receive the GLOBE. for One Year Free. Every teacher sending in Two new subscriptions, will reecive for One Year, both the GLOBE and THE LADIES' JOURNAL, Free. The first teacher sending in Five New Subscriptions will receive a Cash Prize of $\mathbf{\$ 5 . 0 0}$; the Second $\$ 4.00$; the third, $\boldsymbol{\$ 3 . 0 0}$; the Fourth 2.00; the next $T$ venty-five teachers sending in five names, $\mathbf{\$ 1 . 5 0}$; and the next Fifty eachers sending in five names $\$ 1.00$ each $_{r}$ making a total of $\$ 10150$ in Cash Prizes.

The Subscription Price is $\$ 1.00$ per annum in advance. Cash must accompany all orders.

## Yours Respectfully,

## A. J. MAC民UM,

Prop. GLOBE
Address All Communications
Fredericton, N. B to P. O. Box, 315.
graphis formulas for the acid and salt in both reactions.
8 -Give the chemical and physical roperties known to you, of muriatic acid aqua fortis, caustic soda and hydric oxide and write their formulas.

General History and Geometry.
Seniors.
Time $1 \frac{1}{2} \mathrm{hrs}$
Note:-Give references where you can. The young ladies in the class may answer questions in book 2 or in book 4 together with that in book 3, the young men in books 4 and 6. Contractions may be used.

1. Write a short but definite account
associated with the 47 th , book 1.
2. Book 3.-Define a chord and partly without the circle.
3. Book 4.-Arrange in natural groun or in tabular form the substance of or in tabular form the substance of he enunciations of the fle
propositions of this book.
f the prove one of the problems for describing a rectilinear figure about a circle.
4. Book 4.-Enunciate and prove the last proposition in this, book.
10 Book 6.-Prove that a straight line cutting two sides of a triangle and parcutting two sides of a triangle and par-
allel to the third divides the first two

## sides proportionally.

Physiology and Hygiene. Time 1 hr .30 min 1. State what you know of the composition of bone how many bones are there in the human structure? Name the in the the bon in the send, third or fourt sections. Give their relative position and state what kind of articulation that unites them.
2. What is a muscle? how does a muscle cause one part of the body to move upon another?
3. Name in order the cartilages of the larnxy. What is the use of the vocal chords?
4. Name in order the parts of the brain. What is the function of the brain?
5. What is the difference between crannial and spinal nerves, between crannial and spinal ner
6. How may spinal curvature and 6. How may spinal curvature and
deformity of the ribs be induced. What deformity of the ribs be induced. What
evil results arise from such deformities? evil results arise from such deformities?
What "do you consider a deformity of What :do
the ribs?
7. Name seven rules of exercises as given in your text book.

Juniors. Physies and Chemistry.
The paper given the junior clases in 2 hrs . physics was the same as the senises Chemistry.
I. (a) Tell what you know about an atom of Hydrogen-an atom of Sodium-an atom of water.
(b) Write the graphic formula for water-Muriatic acid and Caustic potash. 2. Give the Chemical and Physical properties known to you of Muriatic acid, Sulphuric acid, Caustic Soda and Hydric oxide and write their formulas.

## rofessional Knowled

(Method Part 1.)

1. (a) What is the educational and what the practical value of the subject of orm
(b) How should it be taught, outline an illustration, a lesson of the sphere.

Reading.
2. (a) Describe generally the various methods adopted to teach the first steps in reading,
(b) Which of them do you prefer, why and (c) in which order would you introduce the difficulties in teaching the first steps of reading? Give reason therefore.
(d) Show how you would teach a class of children to read a new sentence.
(School Disctpline, Part 2.)

1. The kind of school discipline which you will be able to secure will depend on certain conditions. What are they?
2. What is the relation, motives and conduct?
3. What is the use of rewards and punishments in schools. What kinds are best?
4. Discuss briefly the following rewards and punishments giving your opinion of case may be.

## Famely.

Detention after school, Prizes, CertifiDetention after school, Prizes, Certifi-
cates, Corporal Punishment, Home Lescates, Corporis Punishments, Suspensions Les 5th.-On what general principles would you deal with offences,

Physiology and Hygiene.

1. Through what passages would the blood flow in going from one of the cavi-
ties of the heart to the stomach and ties of the heart to the stomach and
thence to the cavity from which it started.
2. Where in the system is the blood hanged from arterial to venous blood and 3 . Wrom venous to arterial.
3. What is meant by inspiration and expiration. How are they brought about? 4. Explain how muscular exercise effects the circulation and other vital processes effected in consequence?
4. Explain why pressure on the veins
by the clathing is injurious, and give xamples?
5. What waste matters leave the body what by the lungs.
6. What is the pulse, and why is there usually no pulse in the veins.
