

THE EDUCATIONAL HORIZON - A SATURDAY FEATURE - Presenting News And Views Of Interest To Teachers And All Others Seeking Improvement In Educational Matters

DO THEY REASON? Perhaps there is no ability which would be fostered in children so important during school life and so essential in later years as the ability to reason. And while this ability of school activity is not overvalued by any means rarely is it given adequate attention. Usual school work is something that will develop of itself without particular effort or attention. Now, in our day, there is a need to exert definite effort to promote this ability and a prime requisite would be to some understanding of the factors involved in reasoning. Effective thought presupposes a problem, and a problem in turn presupposes some difficulty met with which it is desirable to overcome. First we have the obstacle, then the formulating of the problem. Now the reason dictates an explanation of all the facts which are related to the situation. A clue for a solution comes and is tested mentally against the facts. It proves unsatisfactory. Another is tried until by the process of trial and error, we may arrive at a conclusion which fits with the known data. This process is similar to the animal method of meeting a difficulty except that man for the most part arrives at a solution by a logical method of reasoning. Pictures provide a particularly useful source of problems. To see and direct the child's attention to thinking situations in every class activity is the teacher's greatest task.

CHILDHOOD Into the hands of parents and teachers, Heaven places children. It is our trust to direct the simple, untroubled life of the childhood of a province. It is given us to mold the impressionable plastic of the very young, into a form of whom a land may well be proud who will carry the tradition of preserving our civilization. Ours is a serious task. The care of the children of a city province should surely be the primary concern, not only of trustees, parents, and teachers, but of citizens. I believe that every teacher is living and anxious to fulfill his duty. What we want more than anything else—even than higher salaries—is interest, not passive, but active. The great trouble is that teachers and teachers alike are so busy with innumerable tasks to be finished within a certain time that they do not raise their eyes above the busy bustling streets to gaze for a moment at the church spire, towering majestically, serenely above the throng. Teachers thirst for inspiration, encouragement, co-operation. Many of us have forgotten to look. We have even forgotten that such things exist. Let us not all get together, parents, and teachers, to discuss these things over in a friend-ly understanding manner? I am

PICTURES Pictures on the walls of our classrooms mean pictures on the walls of memory. A good and great picture is an exhibition of a good and great thought. We need not that boys and girls will not read and appreciate the thought in pictures to the intended intent influencing them in the direction of the central saving graces of the pictures. Many good thoughts have been brought by coming in contact with pictures and by virtue of this, they have been so awakened and strengthened as to respond to the gladness and shrink from the evil in disgust. I am sure you have heard of any good

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Transfer Must Have Full Approval (C.P. Cable, By Guardian's Special Wire) LONDON, June 10.—Transfer of any protectorate now under the British flag would not be considered without full approval of the people of such territory, the Marquess of Dufferin and Ava, Colonial Under-Secretary, told the House of Lords today. The Marquess said the conclusion had been reached that the policy of the South African and United Kingdom governments should in the next few years, be directed toward effecting a situation whereby if a transfer of a protectorate became a matter of practical politics, it should take place only with the full acquiescence of the population concerned. (Speaking at Middleburg, South Africa, today General Jan Smuts, vice-premier and Minister of Justice, said the League of Nations would decide the issue should Germany demand return of her African pre-war colonies. Neither the South African nor British governments would decide, he said.) Big Offers For Coronation Souvenirs (C.P. By Guardian's Special Wire) LONDON, June 10.—Collectors are flooding the Westminster Abbey annex, contractors with staggering offers for the doors through which the King and Queen passed on their way to the coronation service. Doors were made of wood from the piles of Waterloo bridge and the piles were cut in Canada. The throne chairs and faldstools will not be sold. They will be placed either in one of the royal palaces or a museum.

DYING TEACHERS It is a hard thing for a teacher to keep alive in his calling. Where the same subjects are taught year after year by a teacher isolated in a rural district, his teaching is destined to degenerate into a rote routine, and he will surely die long before he is ready for burial. There is a dead-line in all professions, and when a teacher reaches this line, what shall he do with him? The creed says nothing about the resurrection of the dead in pedagogy. Shall such a teacher be translated in the board of school trustees? By no means, for his event there will be the death-knell to all further progress in the district. The only safe thing to do is to try to keep teachers from dying before they are ready to leave the school-room. We need to revive frequently. That is the chief purpose of the Institutes and Conventions. They are the teachers' revival meetings. They are far more necessary to the old teacher than to the beginner. He who derives no benefit from these contacts with fellow-workers has already reached the dead-line, and the sooner he is translated into some other sphere, the better it will be for innocent children.

CANADA'S RELATIONS Canada's relations with U. S. A. may be summed up under the following headings: 1. Early attempts to conquer Canada (1775; 1812). 2. Rush-Bagot Treaty: Warships abolished on Great Lakes and fortification of international boundary line forbidden (1817). 3. Boundary Disputes because of ambiguity of the Treaty of Versailles: (a) Maine-N.B. boundary settled by Treaty of Ashburton (1842); (b) boundary between B.C. and Oregon settled by arbitration (1846); (c) Alaskan boundary part of B.C. was cut off from the sea. 4. Fisheries trouble - U.S.A. to

A TEST IN GEOMETRY 11. The opposite angles of a rhombus are equal. 12. A diameter is the greatest chord of a circle. 13. It is possible to draw a right-angled isosceles triangle. 14. It is possible to draw a right-angled equilateral triangle. 15. All equilateral triangles are similar. 16. The diagonals of a rectangle bisect one another. 17. If unequal be taken from unequals the remainders are unequal. 18. It is possible to draw a triangle with sides 3, 4, and 7 inches respectively. 19. A rhombus is a regular quadrilateral. 20. A geometrical construction to trisect a given line is known. 21. A line cannot be shorter than its projection on another line. 22. One and only one square can be drawn with a diagonal of given length. 23. The exterior angle of a regular hexagon is 30 degrees. 24. If two straight lines intersect the vertically opposite angles are supplementary. 25. No side of a triangle is less than the difference of the other two sides.

Hutchins Announces Dr. Bowen's Appointment

The following appointment of Dr. Norman L. Bowen will be of much interest here as Dr. Bowen, who is a native of Kingston, Ont., is married to Dr. Mary Lamont of Montague, sister of Mrs. F. A. A. Mutch of this city. Dr. and Mrs. Bowen have spent several summers here and have a wide circle of friends throughout the province. Dr. Norman L. Bowen, distinguished petrologist of the Carnegie Geophysical Laboratory, Washington, D.C., has been appointed Charles L. Hutchinson Distinguished Service Professor in the department of geology, President Robert M. Hutchins of the University announced last night, says the Chicago Daily Mirror of May 26th. The Charles L. Hutchinson professorship has been established by the Board of Trustees in recognition of the generous interest of Mr. Hutchinson, for many years a University trustee, who died in 1924, and of his widow, Frances K. Hutchinson, in the University. One of the world's best known authorities on the nature and origin of rocks, Dr. Bowen was one of the distinguished international group of sixty-two scholars and scientists to receive an honorary degree from Harvard University last September at its Tercentenary Celebration. With his appointment, the number of the Chicago faculty in the notable group so honored is five. Rudolf Carnap, philosopher; Arthur H. Compton, physicist; Leonard E. Dickson, mathematician; and Werner V. Jaeger, classicalist, being the others. No other American institution had more than two faculty men so recognized.

Discovers Mullite Interested particularly in the chemical and physical characteristics of molten materials from which rocks are formed, Dr. Bowen at the Geophysical Laboratory has carried on extensive experiments with artificial molten rocks. Work which has not only thrown light on the nature of geological processes but which also has had important bearing on industrial processes. It was on the basis of his experience with these artificial "melts" that he was able to take over during the war, when the foreign product was unavailable, the scientific direction of the production of optical glass for the War Industries Board. He is joint discoverer of Mullite, fundamental constituent of fire clay refractories. His appointment is to be effective October 1, 1937.

Replaces Johannsen Professor Bowen will replace Dr. Albert Johannsen, for twenty-eight years professor of petrology at the University, leader in the field of igneous petrography, who has published three of the four volumes of a study that is recognized as the classic of its field. Dr. Johannsen reached the retiring age this winter. "Appointment of Dr. Bowen means that the effectiveness of the University's work in the fundamental field of geology so long carried by Dr. Johannsen with great distinction will be continued and extended", President Hutchins said in his announcement. "In establishing the Charles L. Hutchinson Distinguished Service Professorship, which Dr. Bowen is

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Road Test Record Book Contains Interesting Data For Motorists More and more car manufacturers are recommending lighter grades of oil for use in their new car models and the reason for this trend is explained in the Record Book used by participants in the Imperial Oil Road Test now in progress all over Canada. Modern engines are more tightly fitted and are operated at higher speeds than their predecessors so a lighter oil is required to reach the bearing surfaces quickly. In the past many motorists have been reluctant to use lighter grades than S. A. E. 40 or 30 in the summer or S. A. E. 20 in the winter, fearing that increased consumption would increase operating costs. Figures given in this connection prove that lighter oils do not increase operating costs, but on the contrary may even decrease them slightly. The explanation lies in the fact that although slightly more oil is consumed by an engine in good condition when lighter grades are used, there is a corresponding increase in gasoline mileage which more than offsets the difference. Another section of the Record Book deals with the influence of the grade of oil upon quick starting. As a result of consistent advertising most motorists probably believe that the much desired quality depends entirely upon the quality of the gasoline and the battery in their car. It is a fact, however, that the grade of oil plays a great part as either of these other two factors and in winter it is even more important. The drag which heavy oil imposes upon engine parts is considerable and when the oil is partly congealed by low temperature can be expected to turn over the cold engine at 1000 r.p.m. for instance, available to turn over a typical engine from a cold battery is 68 U.S. using a 10 W. oil, a torque of only 72 is required—well within the safety margin. But when an S. A. E. 20 oil of a torque of 130 is required—and as the battery is not able to supply this amount of power, the only result to be expected is starting failure. Copies of the Official Record Book are available at Imperial Oil dealers to motorists who enter the Road Test. \$4.00 in price are offered for the best kept Record Books.

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