

Educational Matters.

Professor Whiting's Suggestions on Zoology—Addressess by Miss Holton and Ex-Governor Thomas.

The following contribution is by Professor C. A. Whiting of the University of Utah:

Zoology.

A week ago I presented a few notes on history, which I thought might be helpful to teachers engaged in common school work. The usual offer is now suggestions regarding work which may be done in zoology.

Criticism.

As usual I present a few notes on history, which I thought might be helpful to teachers engaged in common school work. The usual offer is now suggestions regarding work which may be done in zoology.

2. Where are frogs found at that time of the year?

3. Can you tell a frog which has hatched this spring from another?

4. Do you think that all of the tadpoles we find in ponds, streams, etc., hatch from eggs laid in water?

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6. Are tadpoles and frogs, and frogs, and toads, all alike?

7. Are there any insects which have wings, but no legs? If so, what becomes of some of them?

8. Can you tell a frog which has hatched this spring from another?

9. Do you think that will develop into frogs this fall? Why or why not? Will the cold affect them in any way?

Crustaceans.

Look in the bottoms of clear water ditches and see if you can find some queer looking crustaceans made up of small and some small lots of leaves and sticks. These cutters are about an inch long and about one-half inch in diameter. If any of these cutters is carefully broken open, an interesting insect will be found inside. This is the larva of the crayfish. Crayfish live in streams, but are not found in lakes, except in mountain streams. They are common active. Keep a few of them in a jar all winter, changing the water occasionally, and see if they develop into the matured in the spring.

Grasshoppers.

4. Are the grasshoppers as numerous as they were a few weeks ago?

5. What has become of those which have disappeared?

6. Are there any living as active as those which were found in August?

7. Will they all die this winter? If so, where will the grasshoppers come next year?

Birds.

1. Do birds sing as much now as they did early in the spring and summer?

2. Do the field-sparrows build nests? How many eggs do they lay?

3. Can you find as many kinds of birds as you could in the summer? What has become of those which have disappeared?

4. Are there some birds fewer or more? Do you think that the food supply has anything to do with the migration of birds?

Physics.

The following address was delivered before the Utah Teachers' Association at Provo on Saturday afternoon, and by Miss M. Adelaid Hodder, supervisor of primary instruction in the schools of this city. Miss Holton represents the state superintendent.

I am sorry that the members of the teachers of Utah county must be "progressive," otherwise I should not be here.

How are we to fit our schools to a higher plane? As we improve, and grow as we improve, so we fit the schools to a higher level. There is no real goal that we can afford to get into it.

No method of teaching reading was ever invented which should be taught in common schools. The broad statement is made, but I think we can support it. Let us go back in the history of reading, and we find that after years of study, simple devices had to be used. If not to understand what they read.

Then comes the German method. This, however, was better than those that preceded it, showing that the memory was improved, while the eyes were not. The surprise of the first few months was that the memory is over taxed, and the children grow fat at the start.

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Now we must combine all these methods, and can say which may be termed the eclectic method.

The method of phonics not only gives independent power of expression. This is a strong point. Through the understanding of phonics, the children gain confidence in themselves.

It is very hard for them to pronounce words or have the key to the use of which they can turn the unfamiliar; their reading is better than when they depend on memory alone for three all.

As the teacher, however, the child's vocabulary is enlarged, and his interest as well as his pleasure increases.

There are some teachers who can make good readers with any method, but these are exceptional, and the goal of the majority shows three all.

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