Canon Paleo Curriculum
Unit: The Nature of Science
Lesson Plan: 4

Activity Name: Can You Spot The Scientific Method

Supplies:
Worksheet - Can You Spot The Scientific Method

Preparation:
Copy worksheet for students

Concept:
Students learn to recognize a problem, a hypothesis, a conclusion, and the testing stage of a hypothesis.

Activity:
Students complete worksheets on their own.
The class discusses answers

Conclusions:
This activity clear defines the different stages of forming and testing a hypothesis. Students will gain a better knowledge of how to set up their own scientific experiment.

Time: 25-30 minutes

CAN YOU SPOT THE SCIENTIFIC METHOD
CRITICAL THINKING/PROBLEM SOLVING

Name _____

Date _____

Class _____

Each sentence below describes a step of the scientific method. Match each sentence with a step of the scientific method listed below.

A. Recognize a problem
B. Form a hypothesis
C. Test the hypothesis with an experiment
D. Draw conclusions

_____ 1. Stephen predicted that seeds would start to grow faster if an electric current traveled through the soil in which they were planted.

_____ 2. Susan said, “If I fertilize my geranium plants, they will blossom.”

_____ 3. Jonathan’s data showed that household cockroaches moved away from raw cucumber slices.

_____ 4. Rene grew bacteria from the mouth on special plates in the laboratory. She placed drops of different mouthwashes on bacteria on each plate.

_____ 5. Kathy used a survey to determine how many of her classmates were left-handed and how many were right-handed.

_____ 6. Jose saw bats catching insects after dark. He asked, “How do bats find the insects in the dark?”

_____7. Justin wondered if dyes could be taken out of plant leaves, flowers, and stems.

_____ 8. Alice soaked six different kinds of seeds in water for 24 hours. Then she planted the seeds in soil at a depth of I cm. She used the same amount of water, light, and heat for each kind of seed.

_____9. Bob read about growing plants in water. He wanted to know how plants could grow without soil.

____ 10. Kevin said, “If I grow five seedlings in red light, I think the plants will grow faster than the five plants grown in white light.”

____ 11. Angela’s experiment proved that earthworms move away from light.

____ 12. Scott said, “If acid rain affects plants in a particular lake, it might affect small animals, such as crayfish, that live in the same water.”

____ 13. Michael fed different diets to three groups of guinea pigs. His experiment showed that guinea pigs need vitamin C and protein in their diets.

____ 14. Kim’s experiment showed that chicken eggshells were stronger when she gave the hen feed, to which extra calcium had been added.

KEY FOR TEACHERS
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