



Scientific Method Worksheet

Match the following terms with the correct definition.

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| _____ 1. Hypothesis | A. Organized process to test a hypothesis |
| _____ 2. Experiment | B. Finding out source or information about the problem |
| _____ 3. Ask a question | C. Observations & measurements recorded |
| _____ 4. Conclusion | D. A judgment based on the results of an experiment |
| _____ 5. Doing research | E. An educated guess about the solution to a problem |
| _____ 6. Analyzing data | F. Identifying the problem |

CAN YOU SPOT THE SCIENTIFIC METHOD?

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

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| A. Recognize a problem | C. Test the hypothesis with an experiment |
| B. Form a hypothesis | D. Draw conclusions |
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- _____ 7. Gary wanted to know what he is lacking on his failed chemical experiment.
- _____ 8. Stephen predicted that seeds would start to grow faster if an electric current traveled through the soil in which they were planted.
- _____ 9. Susan said, "If I fertilize my geranium plants, they will blossom."
- _____ 10. Jonathan's data showed that household cockroaches moved away from raw cucumber slices.
- _____ 11. Rene grew bacteria from the mouth on special plates in the laboratory. She placed drops of different mouthwashes on bacteria on each plate.

- _____ 12. Kathy used a survey to determine how many of her classmates were left-handed and how many were right-handed.
- _____ 13. Dana wanted to know how synthetic fibers were different from natural fibers.
- _____ 14. Jose saw bats catching insects after dark. He asked, "How do bats find the insects in the dark?"
- _____ 15. Justin wondered if dyes could be taken out of plant leaves, flowers, and stems.
- _____ 16. Julie soaked six different kinds of seeds in water for 24 hours. Then she planted the seeds in soil at a depth of 1 cm. She used the same amount of water, light, and heat for each kind of seed.
- _____ 17. Bob read about growing plants in water. He wanted to know how plants could grow without soil.
- _____ 18. 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."
- _____ 19. Angela's experiment proved that earthworms move away from light.
- _____ 20. 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."