



### Scientific Method Worksheet

Match the following terms with the correct definition.

_____ 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.

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

\_\_\_\_\_ 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."