Name:	Date:
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Scientific Method Worksheet

Put the following steps of the scientific method in the proper order.

 Research the problem
 Observe and record
 Make a hypothesis
 Identify the problem
 Arrive at a conclusion
 Test the hypothesis



Match the following terms with the correct definition.

- _____ 1. Hypothesis
- Hypothesis A. Organized process to test a hypothesis
- ______ 2. Control

- B. An educated guess about the solution to a problem
- ______ 3. Dependent Variable
- C. Observations & measurements recorded
- ______ 4. Experiment
- D. A judgment based on the results of an experiment
- _____5. Conclusion
- E. Used to show that the result of an experiment is really due to the condition being tested

_____ 6. Data

- F. The factor that is manipulated during an experiment
- _______7. Independent Variable
- G. The response that is measured in an experiment



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

В.	Form a hypothesis	D. Draw conclusions	
		seeds would start to grow faster if an electric current traveled through the	e
soil in	which they were planted.		
	9. Susan said, "If I fertilize n	ny geranium plants, they will blossom."	
	10. Jonathan's data showed	that household cockroaches moved away from raw cucumber slices.	
differe	11. Rene grew bacteria fron nt mouthwashes on bacteria o	n the mouth on special plates in the laboratory. She placed drops of n each plate.	
———were r	12. Kathy used a survey to dight-handed.	determine how many of her classmates were left-handed and how many	
	13. Dana wanted to know h	ow synthetic fibers were different from natural fibers.	
	14. Jose saw bats catching i	nsects 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.	
———at a de	 ·	ent kinds of seeds in water for 24 hours. Then she planted the seeds in some amount of water, light, and heat for each kind of seed.	oil
	17. Bob read about growing	g plants in water. He wanted to know how plants could grow without soil	۱.
plants	18. Kevin said, "If I grow five grown in white light."	e seedlings in red light. I think the plants will grow faster than the five	
	19. Angela's experiment pro	oved that earthworms move away from light.	
crayfis	20. Scott said, "If acid rain a h, that live in the same water."	affects plants in a particular lake, it might affect small animals such as	
need v	21. Michael fed different di itamin C and protein in their d	ets to three groups of guinea pigs. His experiment showed that guinea pi iets.	igs
———which	22. Kim's experiment showe	ed that chicken egg shells were stronger when she gave the hen food to	