Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Section\_\_\_\_\_\_\_\_\_\_\_\_\_

Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Science

C:\Documents and Settings\chrissy\Local Settings\Temporary Internet Files\Content.IE5\0DXBK5I1\MC900434411[1].wmf**To Test or not to test, that is the Question!** C:\Documents and Settings\chrissy\Local Settings\Temporary Internet Files\Content.IE5\K54EX3A0\MC900434403[1].wmf

**Part I**: Change the following questions around so that they are in the form

**How does \_\_\_\_\_\_\_\_\_\_\_\_\_ affect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?**

1. Do Nikes or New Balances make a person run faster?

2. Do robins prefer small or large birdhouses?

3. Where is the best location to plant my azeleas?

4. What temperature is best for keeping slurpees?

5. Does Carbon Dioxide in the atmosphere cause the atmosphere to warm?

**Part II**: For each statement, question, or scenario, state whether it is testable or nontestable. For those that are testable, write a purpose in the form of a testable question.

6. Sara wanted to do a scientific investigation that involved people and their sleep. She hypothesized that all people feel happier if they take a one-hour afternoon nap each day.

7. Dr. Grey performed an experiment where she put one group of mice in a cold area and another group of mice in a warm area to observe their activity levels.

8. George is interested in insects and wants to do an experiment. He wants to know why there are so many insects in the world.

9. Barbara is a research scientist at an organic pest control company. Part of her job is to find foods that ants will eat so the foods can be used in ant baits.  
Over the last month, Barbara performed an investigation in her lab involving 100 ant mounds. She began by placing equal amounts of corn meal and maple syrup on opposite sides of each mound. Each morning, she measured how much of each food the ants had taken. She then replaced the foods with fresh samples, and repeated the process every day.

10. Robert studies ocean life. He observes that a species of octopus squirts a large cloud of black ink whenever a predator approaches. He decides to continue observing this species to find out if releasing a cloud of ink makes the octopus more likely to escape a predator.