

Name \_\_\_\_\_ Date \_\_\_\_\_ Block \_\_\_\_\_

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### Middle School Scientific Method Scenarios

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Use your scientific method notes to help you analyze the following problems.



1. Peter loves music. He believes that he does his homework better and faster when he listens to music. His parents say that music is distracting when studying.

- a. What is the problem?

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- b. Write a testable hypothesis in the "If..., then" form. Be sure it is in this form and a complete sentence.

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- c. Describe in 3 –6 sentences an experiment Peter could do to test his hypothesis.

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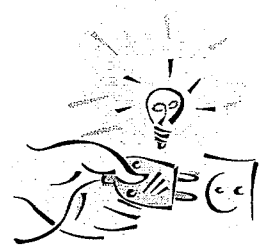
- d. What would the independent variable be? \_\_\_\_\_

- e. What would the dependent variable be? \_\_\_\_\_

- f. What would the control variables be? \_\_\_\_\_

8<sup>th</sup> grade science

2. The Johnson family has decided to try to save electricity (and money at the same time). They were told that they could replace their regular light bulbs with special fluorescent bulbs that use less energy. They wonder if it is really worth doing.



- a. What is the problem?

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- c. Describe in 3 –6 sentences an experiment Peter could do to test his hypothesis.

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- d. What would the independent variable be? \_\_\_\_\_

- e. What would the dependent variable be? \_\_\_\_\_

- f. What would the control variables be? \_\_\_\_\_