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| Name: |  | Pd: |  | Date: |  |

Student Handout #4

Practicing Writing Hypotheses

A *hypothesis* is a tentative and testable statement that proposes an explanation for an observable phenomenon.

*Directions*: For each of the following statements write two possible hypotheses. Underline the independent variable once and the dependent variable twice.

1. Electromagnetic fields have an effect on algae cells.

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2. The shape of solar reflector cells has an effect on the amount of light collected.

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3. The local news station is more accurate in predicting the weather than the National Weather Service is.

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4. Temperature has an effect on crickets.

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5. Changing the angle at which a hockey or soccer goal is attempted has an effect on the number of goals made.

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6. Temperature may cause deciduous leaves to change color.

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7. The use of GPSS (global positioning systems) has improved field yields.

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8. The performance of various gasoline octane levels (87/ 90 / 91) differs.

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9. Is there is a statistical advantage to the team who scores first in a game?

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Now try writing a few hypotheses for your own research topic. Once you start to work with a hypothesis, you will discover the areas in which you need to do additional research.

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