

Name: _____
Mr. Willis
Biology: _____
Date: _____

Unit I
Biology – The Nature of Science
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I

Hypothesis Construction

Directions: Take the following inferences and turn them into formal hypotheses using the format: If responding variable is related to manipulated variable then prediction (with explanation).

1. Chocolate may cause pimples.

Manipulated Variable _____ Responding Variable _____

Formal Hypothesis: _____

2. Salt in soil may affect plant growth.

Manipulated Variable _____ Responding Variable _____

Formal Hypothesis: _____

3. Plant growth may be affected by the color of light.

Manipulated Variable _____ Responding Variable _____

Formal Hypothesis: _____

4. Bacterial growth may be affected by temperature.

Manipulated Variable _____ Responding Variable _____

Formal Hypothesis: _____

5. Ultraviolet light may cause skin cancer.

Manipulated Variable _____ Responding Variable _____

Formal Hypothesis: _____

6. Temperature may cause leaves to change color.

Manipulated Variable _____ Responding Variable _____

Formal Hypothesis: _____

