Fertilizer Inquiry Lab

Background: Why do people fertilize plants? Does it really make a difference in the growth of a plant? Does it make flowers bloom more rapidly for vegetable plants grow larger or more productive.

Materials:

* Potting soil
* Seven Top Turnip seeds
* Purple top white globe seeds
* Organic fertilizer
* Miracle-Gro fertilizer
* Starter trays
* Water

Testable Questions:

* How does fertilizer affect the rate of germination of seeds?
* How does fertilizer affect the amount of seeds that germinate?
* How does fertilizer affect the size, stems, or leaves of plants?
* How does the type of fertilizer (organic or regular) affect the germination of seeds?
* How do different strengths of fertilizer affect the rates of growth of plants?
* How does the fertilizer affect the type of seed?

**Directions:** As a group, select an independent and dependent variable and write a testable question.

Independent variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Dependent variable:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Testable Question:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Hypothesis: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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STOP and check in with Ms. McDaniel!

Constants:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Control:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How will you collect your data?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STOP and check in with Ms. McDaniel!

Procedure:

Data Table: