

Scientific Method Worksheet

Name:

In the statements below, write the hypothesis, variables, control groups and experimental groups.

1. Plants grow best in blue light.

Title: **

Hypothesis: **

Independent Variable: **

Dependent Variable: **

Control Group: **

2. The deer population decreases in the winter due to the lack of food.

Title: **

Hypothesis: **

Independent Variable: **

Dependent Variable: **

Control Group: **

3. Students who study, perform better in school.

Title: **

Hypothesis: **

Independent Variable: **

Dependent Variable: **

Control Group: **

Read the following situation and answer the following questions.

Suzie Q wants to know how different colors of light effect the growth of plants. She believes that plants can survive the best in white light. She buys 5 ferns of the same species, which are all approximately the same age and height. She places one in white light, one in blue light, one in green light, one in red light and one in the closet. All of the ferns are planted in Miracle-Grow and given 20 mL of water once a day for 2 weeks. After the two weeks, Suzie observes the plants and makes measurements.

Title: **

Hypothesis: **

Independent Variable: **

Dependent Variable: **

Control Group: **

What types of measurements can Suzie make on the plants to determine how they did in different types of light?

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