

The National Orthodox School /Shmaisani

Subject: Science/ Physics

Name:

Title: Worksheet 1

Grade-Section: 6 CS -

Date:

Objectives:

- Be able to write a proper hypothesis for different statements.
- Be able to identify the dependent and the independent variables.

Question one:

For each statement below identify the dependent and the independent variables:

1: The higher the temperature of the air in the oven, the faster the cake will bake .

Independent variable: _____ .

Dependent variable: _____ .

2: The time it takes to run one kilometer depends on the person's running speed.

Independent variable: _____ .

Dependent variable: _____ .

3: Students measured the temperature of the water at different depths in lake and found that the temperature varied.

Independent variable: _____ .

Dependent variable: _____ .

4: An investigation found that lots of potatoes were produced when the soil was fertilized more.

Independent variable: _____.

Dependent variable: _____.

5: The amount of pollution produced by cars was measured for cars using gasoline containing different amounts of lead.

Independent variable: _____.

Dependent variable: _____.

6: Lemon trees receiving the most water produced the most lemons.

Independent variable: _____.

Dependent variable: _____.

Question two:

State a proper hypothesis for the following investigations and identify the dependent and the independent variables:

1: What effect does temperature have on plants' growth?

Hypothesis: _____.

Independent variable: _____.

Dependent variable: _____.

2: How does the color of food affect the amount of food that fish eat?

Hypothesis: _____.

Independent variable: _____.

Dependent variable: _____.