1. What instrument measures mass, temperature, force, and length?

	Instrument	Unit
Mass	Triple-Beam Balance	Kilograms (kg) or Grams (g)
Temperatur e	Thermometer	Kelvin (K)
Force	Spring Scale	Newton (N)
Length	Meter Stick or Ruler	Meters (m)

Distinguish the difference between a constant variable and a control group. Give an example of each from the scenario.

Scenario: The effect of the amount of sunlight on plant growth. Each tomato plant gets the same amount of water and fertilizer. There are 3 plants. The first plant is placed in the closet. The second plant is placed outside, and the third plant is placed in the house by the window.

Constant or Control Variable: Is what remains the same throughout the experiment. Control Group: The experiment with the independent variable left out. Recognized by the number zero (0).

Ex of Constant: Same amount of water and fertilizer

Ex of Control Group: The first plant placed in the closet.

- 3. Distinguish the difference between an independent variable and a dependent variable. Also pick out the independent and dependent variable from the scenario in question2. Independent variable: Independent variable is what's being change or manipulated by the experimenter/Amount of Sunlight. Dependent variable: Dependent variable responds to the independent variable/Plant Growth.
- Create a graph that would illustrate where an independent and dependent variable would go.

Independent vs. Dependent Variable

Department Variable

Create a chart that would illustrate where an independent and dependent variable would go.

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Jin-Ying Zhang

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