

### Data Analysis Worksheet

**Background:** One of the most important steps that a scientist completes during an experiment is data processing and presentation. Data can be analyzed by the presentation of the data in table format (data table), or the processing of that data through graphical manipulation to visually discern the differences in the variables tested. The purpose of this worksheet is to give you an opportunity to demonstrate your knowledge of these scientific skills.

**Reading a data table:** Examine the data found in Table 1 and answer questions #1-4.

**Table 1: Growth of eight plants in a three week period**

	Amount of Light per day	Amount of Water per day	Height Week 1 in cm	Height Week 2 in cm	Height Week 3 in cm
Plant 1	0 hours	¼ cup	0 cm	0 cm	0 cm
Plant 2	0 hours	1 cup	0 cm	0 cm	0 cm
Plant 3	4 hours	¼ cup	1 cm	3 cm	6 cm
Plant 4	4 hours	1 cup	0.5 cm	1 cm	1.5 cm
Plant 5	8 hours	¼ cup	1.5 cm	4 cm	8 cm
Plant 6	8 hours	1 cup	1 cm	3 cm	6 cm
Plant 7	16 hours	¼ cup	1 cm	2 cm	3 cm
Plant 8	16 hours	1 cup	1.5 cm	5 cm	10 cm

1. In this plant growth experiment, what were the two variables tested?
2. What conclusions can you draw in regards to the amount of light a plant was exposed to and how tall the plant grew?
3. What conclusions can you draw in regards to the amount of water given to a plant and how tall the plant grew?
4. Describe which plant or plants did the best and develop a hypothesis on plant growth based on the data you examined.

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