

Name: _____ Class: _____ Date: _____

Data Table/Graphing Practice

Background Information: There are 8 planets in our solar system. Each planet has its own position around the Sun. The position of the planet in the solar system affects how long it takes to orbit the Sun. Time to orbit the Sun is measured in Earth years.

Testable Question: How does planet position affect the time it takes it to orbit the Sun?

Hypothesis: If the planet is farther away from the Sun then it will take longer for it to orbit the Sun because it has to travel a longer distance.

1. Underline the cause/IV, circle the effect/DV in the testable question.
2. Complete the data table for the data given below:

It takes Mercury 0.24 years to orbit the Sun. It takes Venus 0.62 years to orbit the Sun. It takes Earth 1 year to orbit the Sun. It takes Mars 1.88 years to orbit the Sun. It takes Jupiter 11.86 years to orbit the Sun. It takes Saturn 29.46 years to orbit the Sun. It takes Uranus 84.01 years to orbit the Sun. It takes Neptune 164.8 years to orbit the Sun.

Title: Time vs Planet Position

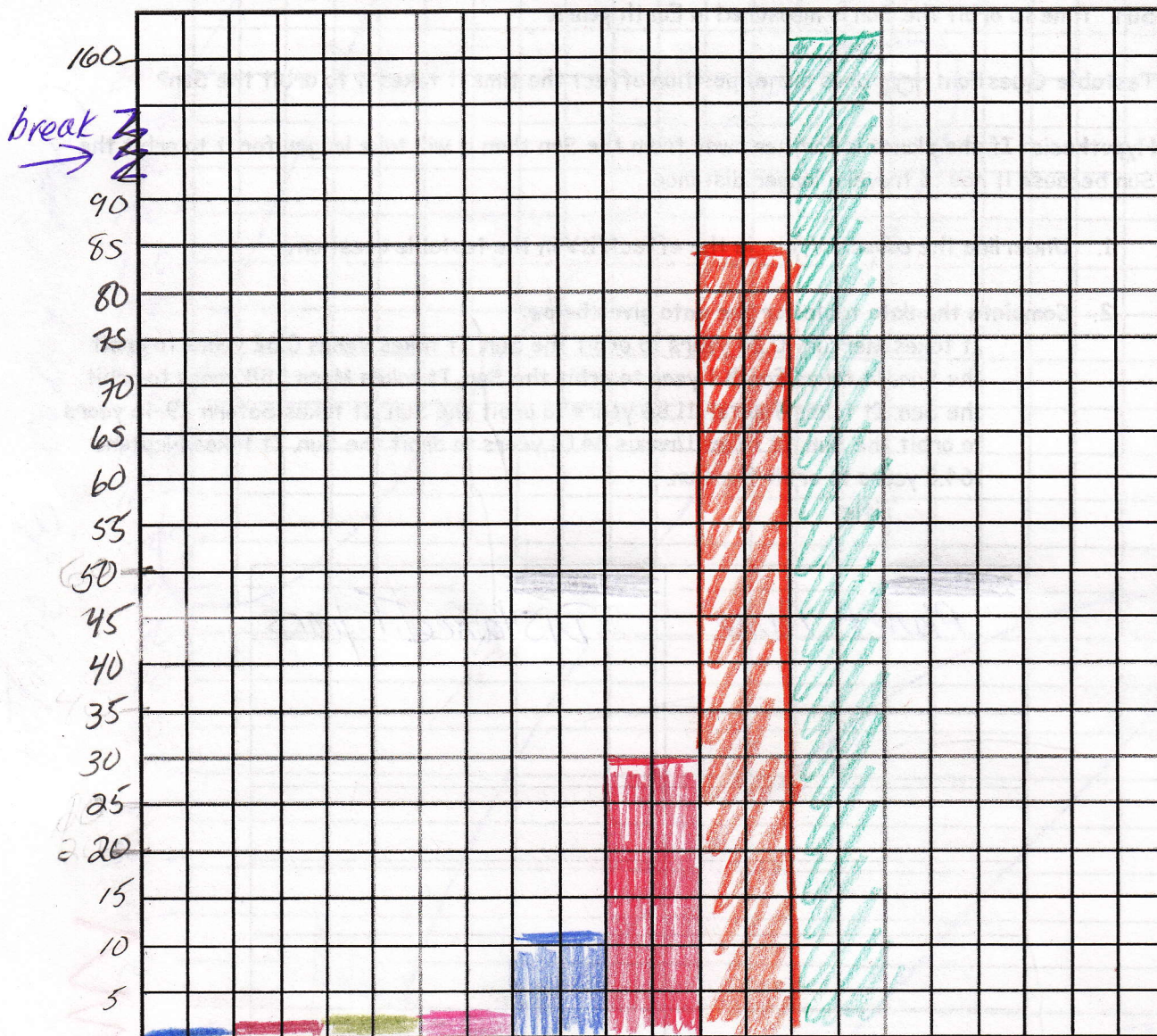
<u>Planet</u>	<u>time to orbit (years)</u>
Mercury	0.24
Venus	0.62
Earth	1
Mars	1.88
Jupiter	11.86
Saturn	29.46
Uranus	84.01
Neptune	164.8

3. Use the steps for planning a graph to create a graph for the data. Use the back of this sheet.

Title:

Time to Orbit vs Planet Name

Time to Orbit (Years)



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Planet Name