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How Do Planets Compare In Size With The Sun?

Objective: _____

_____

Research: (Listed in order from the sun)

Mercury: _____

_____

Venus: _____

Earth: _____

Mars: _____

Asteroid Belt: _____

_____

Jupiter: _____

_____

Saturn: _____

_____

Uranus: _____

_____

Neptune: _____

_____

Pluto: _____

_____

Activity: The chart shows each planet and it's diameter in miles. Use the scale of 1 millimeter equals 10,000 miles to calculate the millimeters distance of each planet's diameter. Record your answers on the chart. ***HINT:*** Divide by 10,000 into diameter in miles.

Object	Diameter (miles)	Millimeter (mm) Diameter
Sun	866,000	
Mercury	3,100	
Venus	7,700	
Earth	8,000	
Mars	4,200	
Jupiter	89,000	
Saturn	71,500	
Uranus	32,000	
Neptune	31,000	
Pluto	3,600	

- Measure and draw out each millimeter diameter on your paper. Begin with the sun. NOTE: If some of the diameters are very small, make a dot with a pen or pencil to match the planet's diameter. (Do the best you can)
- DISTANCES FROM THE SUN WILL NOT BE TO SCALE.

QUESTIONS

1. If all of the planets were placed side by side inside the Sun, how much of the sun's diameter (mm) would be covered?

2. How many Jupiters (mm) placed side by side would equal the sun's diameter (mm)?

3. If Planet X has diameter (mm) that equaled the total diameters (mm) of Saturn and Jupiter combined, how much larger would the sun's diameter be?

4. If your space vehicle traveled 400 miles per hour, how many hours would it take to travel across the sun?

   How many days?

5. Write six true statements based on the results of this activity. For example: The sun's diameter is 9 ½ times larger than the diameter of Jupiter.