

Name _____

Period _____

Common Conversions:
 1 AU = 93,000,000 miles
 1 km = 0.62 miles
 1 year = 8766 hours
 1 day = 24 hours

Solar System Drawing Planet Chart

Planet	Average Distance from sun (miles)	Period of Revolution: length of year (hours)	Period of Rotation: length of day (hours)	Planet diameter (miles)	High and Low Temp. on Planet (C ⁰)	# of moons	Planet classification (Rocky or Gas Giant)
	Convert to mm: 2,000,000 miles = 1 mm			Convert to cm: 4,000 miles = 1 cm			
Mercury							
Venus							
Earth							
Mars							
Jupiter							
Saturn							
Uranus							
Neptune							

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Solar System Drawing (*SHOW WORK!*)

Planet Speeds

Planet	Speed of Revolution (around the sun) <small>$2 \times 3.14 \times \text{distance from the sun (miles)}$ Length of a year (hours)</small>	Speed of Rotation (on its axis) <small>$3.14 \times \text{diameter (miles)}$ Length of day (hours)</small>	Interesting Facts about the planet
Mercury			
Venus			
Earth			
Mars			
Jupiter			
Saturn			
Uranus			
Neptune			

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SOLAR SYSTEM DRAWING

You will be creating a scale drawing of our entire solar system.

You will be using two different scales for your drawing; one for distance, one for size

SCALE FOR DISTANCE OF A PLANET FROM THE SUN: 1,000,000 miles = 0.5 mm

SCALE FOR DIAMETER OF A PLANET: 1,000 miles = 0.25 cm

PAPER: Get a piece of butcher paper one and a half meters long

INFORMATION TO BE INCLUDED FOR EACH PLANET:

- Average or mean distance from the sun in miles
- Period of revolution around the sun or Orbital Period (length of a year in hours)
Example: Earth (365.25 days) = 8766 hours
- Period of rotation on its axis (length of a day in hours)
Example: Earth – 24 hours
- Planet diameter or equatorial diameter (in miles)
- High and low temperatures on the planet in degrees Celsius
- Moons (how many?)
- Planet classification (Terrestrial or Gas Giant)
- Speed of revolution around the sun (in miles per hour)
- Speed of rotation on its axis at the equator (in miles per hour)
- Interesting, unique facts about the planet

The information sheets must be approved by Mr. Hobbs before beginning diagram

Grading:

Sheet #1	10 points
Sheet #2	10 points
Diagram accuracy	10 points
Drawing neatness	<u>10 points</u>
Total	40 points

Helpful conversions

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