Definitions and Units

- **Day** time it takes for a planet to complete one rotation about its axis
- Year time it takes for a planet to complete one orbit around its star
- <surface T> average temperature at the planet's surface
- °C ("degrees Celsius") = (°F-32)×5÷9
- 1 km ("kilometer") = 0.62 miles

Terrestrial Planets





1. MERCURY "Smallest planet" Craters

1 Year on Mercury = 88 Earth days 1 Day on Mercury = 58.6 Earth days <surface T> = 117°C day/ -170°C night <distance from the Sun> = 58 million km Number of moons = 0



3. EARTH "The Blue Planet" Water Life

<surface T> = 15°C <distance from the Sun> = 150 million km Number of moons = 1



2. VENUS "Sister planet" CO₂ atmosphere Hottest planet

1 Year on Venus = 225 Earth days 1 Day on Venus = 243 Earth days <surface T> = 460°C <distance from the Sun> = 108 million km Number of moons = 0



4. MARS "Red planet" Polar ice caps Dust storms

1 Year on Mars = 687 Earth days 1 Day on Mars = 24.6 hours <surface T> = -63°C <distance from the Sun> = 249 million km Number of moons = 2

Jovian Planets





5. JUPITER Gas Giant "Largest planet" Giant storms Fastest rotation

1 Year on Jupiter = 11.9 Earth years 1 Day on Jupiter = 9 hours 55 minutes <distance from the Sun> = 778 million km <T>=-110°C Number of moons = 95



6. SATURN Gas Giant "Ring planet" Metal-rock core?

1 Year on Saturn = 29.5 Earth years 1 Day on Saturn = 10 hours 33 minutes <surface T> = -140°C <distance from the Sun> = 1457 million km Number of moons = 146!



7. URANUS Ice Giant 42 Earth years long summer... Coldest planet

1 Year on Uranus = 84 Earth years 1 Day on Uranus = 17 hours 14 minutes <surface T> = -224°C <distance from the Sun> = 2870 million km Number of moons = 28



8. NEPTUNE Ice Giant Fastest winds

1 Year on Neptune = 164 Earth years 1 Day on Neptune = 16 hours 6 minutes <surface T> = -201°C <distance from the Sun> = 4498 million km Number of moons = 16