

****The Solar System**

(An Easy & Fun Guide to Our Cosmic Neighborhood!)

**1. What is the Solar System?**

- The Solar System is made up of the ****Sun**** and all the objects that orbit around it.
- Includes ****planets, moons, asteroids, comets, and meteoroids****.
- Formed ****4.6 billion years ago**** from a giant cloud of gas and dust.



****Fun Fact:**** The Sun makes up ****99.8%**** of the Solar System's mass!

**2. The Sun – The Star of Our Solar System**

- A ****huge ball of hot, glowing gases**** (mostly hydrogen & helium).
- Provides ****light, heat, and energy**** to all planets.
- ****Temperature:**** About ****5,500°C**** on the surface!

**3. The 8 Planets of the Solar System**

(Order from the Sun: My Very Educated Mother Just Served Us Noodles)

Planet	Type	Fun Fact
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Mercury	Rocky	Fastest planet (88-day year)
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Venus	Rocky	Hottest planet (thick CO ₂ atmosphere)
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Earth	Rocky	Only planet with life! 🌍
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Mars	Rocky	Called the "Red Planet" (iron oxide)
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Jupiter	Gas Giant	Largest planet (Great Red Spot storm)
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Saturn	Gas Giant	Beautiful rings (made of ice & rock)
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Uranus	Ice Giant	Rotates sideways! 🌀
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Neptune	Ice Giant	Windiest planet (2,100 km/h winds!)
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(Bonus: *Pluto**** is now a ****dwarf planet****!)***

**4. Other Objects in the Solar System**

- ****Moons**** – Natural satellites (Earth has 1, Jupiter has 95+!).
- ****Asteroids**** – Rocky objects (mostly in the ****Asteroid Belt****).
- ****Comets**** – "Dirty snowballs" with glowing tails (e.g., Halley's Comet).
- ****Meteoroids**** – Small rocks that burn up as "shooting stars."



****Did You Know?**** The biggest asteroid, ****Ceres****, is also a dwarf planet!

**5. Why is Earth Special?**

- ✓ Has ****liquid water**** (oceans, rivers).
- ✓ Has a ****protective atmosphere**** (oxygen to breathe).
- ✓ Perfect distance from the Sun (****not too hot or cold****).

6. How to Remember the Planets?

Mnemonic: "My Very Educated Mother Just Served Us Noodles!"