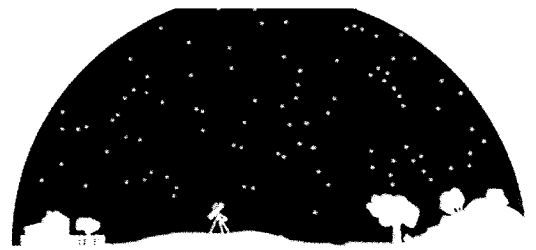


Touring the Night Sky – 8.1

Date:.....



Astronomy	→ The study of what is beyond Earth (in "outer space")
Celestial object	→ any object that exists in space
Universe	→ <u>everything</u> that exists including energy, matter & space.
<u>STARS</u>	
	Star => collection of hot gases that emits energy.
	Luminous => produces & gives off its own energy.
	Our Star (our Sun) • is only average in size. • 1,300,000 times more volume than Earth! • appears to be biggest & brightest star because its <u>closest</u> .
<u>PLANETS</u>	
	Planet => large celestial body that travels around a star.
	(list them) • Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune
	(4 nearest vs 4 farthest) • nearest = terrestrial, farthest = gas giants
	Luminous or not? Which can we see? • <u>non-luminous</u> . But they <u>reflect</u> light.
	can see → Mercury, Venus, Mars, Jupiter, Saturn
	Our Planet (Earth) • large amounts of water • has diversity of life
<u>MOONS</u>	
	Moon = a satellite. • Satellite => celestial objects that travel around a <u>planet</u> .
	Our Moon • "Natural" satellite. • non-luminous - reflects sunlight so we see it.

<u>GALAXIES</u>	Galaxy => huge rotating collection of gas, dust, stars, planets etc... Our Galaxy (Milky Way) • contains 200 ⁺ billion stars! We are <u>in</u> Milky Way Galaxy
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Sketch the hierarchy of objects in the universe (Fig. 4 on page 307).

