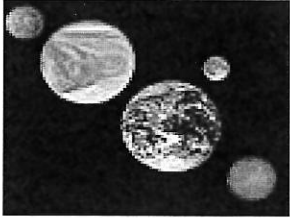
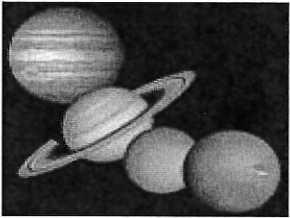
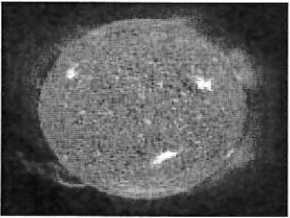
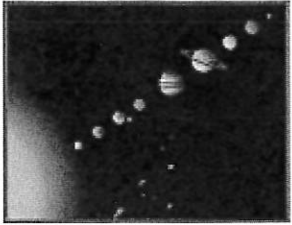

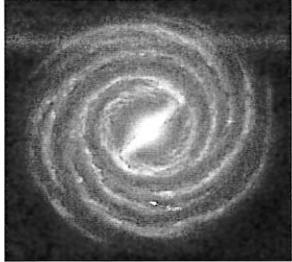
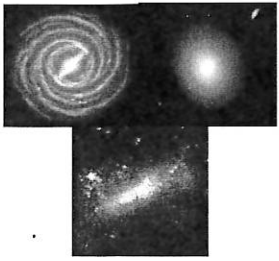
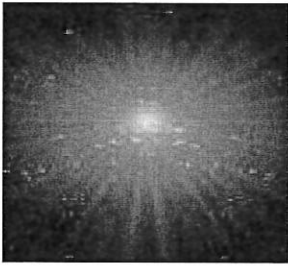
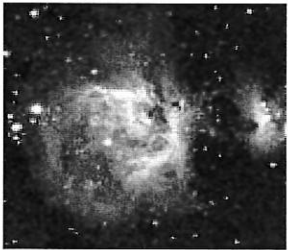
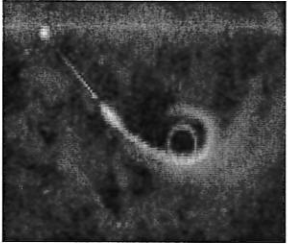

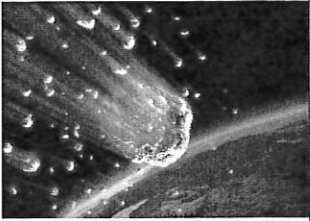

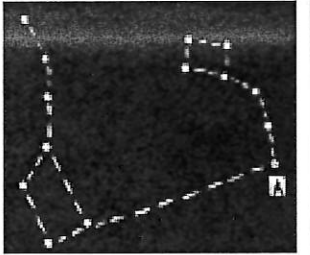


## Objects in Space

<p><b>Inner Planets</b></p>		<ul style="list-style-type: none"><li>• Order from Sun: Mercury, Venus, Earth, Mars</li><li>• Made of rock and metal</li><li>• Warmer → compared to outer planets</li><li>• Smaller →</li><li>• No rings</li><li>• few moons</li></ul>
<p><b>Outer Planets</b></p>		<ul style="list-style-type: none"><li>• In order from Sun: Jupiter, Saturn, Uranus, Neptune</li><li>• Made mostly of gas (might have rocky cores)</li><li>• Cold</li><li>• All have rings</li><li>• Many moons</li><li>• Large</li></ul>
<p><b>Sun</b></p>		<ul style="list-style-type: none"><li>• Big ball of gas * (Hydrogen) * actually plasma</li><li>• Energy comes from nuclear fusion</li><li>• Solar flares (giant explosions on Sun's surface) cause our northern lights</li></ul>

<p><b>Solar System</b></p>		<p>The sun and everything that orbits around it</p> <ul style="list-style-type: none"> <li>• Planets</li> <li>• Comets</li> <li>• Asteroids and Meteoroids</li> </ul>
<p><b>Stars</b></p>		<ul style="list-style-type: none"> <li>• Big, hot spheres of gas* <small>*actually plasma</small> (mostly hydrogen)</li> <li>• Binary stars are pairs of stars that orbit each other.</li> <li>• Sizes Vary <math>\Rightarrow</math> Dwarfs to Supergiants</li> <li>• Colors Vary <math>\Rightarrow</math> Red, Orange, Yellow, White, Blue</li> </ul>
<p><b>Milky Way Galaxy</b></p>		<ul style="list-style-type: none"> <li>• Our galaxy</li> <li>• Spiral galaxy</li> <li>• Approximately 100,000 light years across (light would take 100,000 years to cross it)</li> </ul>
<p><b>Outer Galaxies</b></p>		<ul style="list-style-type: none"> <li>• Millions or Billions of stars held together by gravity</li> <li>• Shapes: 1) spiral, 2) elliptical (oval) 3) Irregular (no shape)</li> <li>• Andromeda is the closest galaxy to the Milky Way.</li> </ul>

<p><b>Supernova</b></p>		<ul style="list-style-type: none"> <li>• The dying explosion of a large star</li> <li>• Very bright (as <sup>can be</sup> bright as 10 billion suns)</li> <li>• Usually shine brightly for 1 or 2 months</li> </ul>
<p><b>Nebula</b></p>		<ul style="list-style-type: none"> <li>• Cloud of dust and "frozen gas"</li> <li>• May evolve into solar systems</li> <li>• Produced by the Big Bang and by Supernova explosions</li> </ul>
<p><b>Black Holes</b></p>		<ul style="list-style-type: none"> <li>• Black area around a very dense point of matter formed from a compressed dead star.</li> <li>• Gravity is so strong that light cannot escape</li> <li>• Cannot be seen, so scientists look for the effects of their gravity.</li> </ul>
<p><b>Comets</b></p>		<ul style="list-style-type: none"> <li>• "Dirty snowballs" made of dust and ice</li> <li>• The tail is dust and ice that is melted and pushed away from the comet by the sun's solar wind.</li> <li>• Tail points away from the sun</li> </ul>

<p><b>Meteors, meteoroids, meteorites</b></p>		<ul style="list-style-type: none"> <li>• all space rocks</li> <li>• Meteoroids are outside our atmosphere</li> <li>• meteors are "shooting stars" - burning up in the sky due to friction</li> <li>• meteorite - A meteor that hits the Earth's surface</li> </ul>
<p><b>Asteroids</b></p>		<ul style="list-style-type: none"> <li>• Bigger than meteoroids, smaller than planets</li> <li>• Most asteroids are in the "asteroid belt" between Mars and Jupiter.</li> </ul>
<p><b>Constellations</b></p>		<ul style="list-style-type: none"> <li>• A group of stars that can be connected dot-to-dot to create an image.</li> <li>• Circumpolar: A constellation that we can see all year long.</li> <li>• Big Dipper is circumpolar</li> <li>• Orion is <u>not</u> circumpolar</li> </ul>