EPS 10 Test Re	0 eview: Astronomy	Name:	Key				
Part 1: Objects in The Universe							
1-14. I Binary Galaxy	Match these terms to the descriptions below. Solar Flares Nebula Meteor Comet Constellation Supernova	Asteroid Andromeda	Meteorite Circumpolar	Black Hole Milky Way			
1.	A rock from outer space that hits the Earth Mete	orite					
2.	A "dirty snowball" of rock and ice that orbits the sun	comet					
3.	A group of millions or billions of stars that is held toget	her by gravity (Salaty				
4.	A collection of stars that can be connected, dot-to-dot,	to form a pictur	e or pattern	onstellation			
5.	This describes a star system with two stars that orbit or	ne another. $ \mathcal{B} $	inary				
6.	An area of super-strong gravity surrounding an infinitely small and dense point of matter – where not even light can escape.						
7.	This is not our galaxy, but it is the closest galaxy to our galaxy. An dromeda						
8.	Ourgalaxy Milky Way						
9.	A rock, smaller than a planet, that orbits the sun	Asteroio	(
10.	The explosive death of a very large star This describes stars that may be seen all year long.	nova					
11.	This describes stars that may be seen all year long.	Circum	polar				
12.	A cloud of dust and gas that can form into a solar syste	m Nebu	la				
13.	A rock from space that is passing through the Earth's at			Meteor			
14.	Giant explosions on the surface of the sun	- Flares	pc B				
15. List the planets, in order, based on their nearness to the sun. Closest: Mercury, Venus, Earth, Mars, Jupiter, Satura, Manus, New 16. Which way does a comet's tail point? Away from the Sun							

List all of the planets that have rings.

Jupiter, Satura, Uranus, Neptune.

Where are the coldest planets?

For from the Sun 17. 18. Which planets are mostly gas?
Outer planets (Jupiter and beyond)
One color star that you will not see is <u>Green</u>. 19.

20.

Where is the asteroid belt? Between the orbits of Mars and Sypiter 21.

Part 2	2: Solar System Formation	
22.	Before the solar system took its current form, it was called a nebula, and it contained dust and ice. Describe the nebula that gave rise to our solar system.	
	bescribe the nebula that gave rise to our solar system.	
	a. What materials made up the nebula's dust?	
	Rock and Metal	
4	b. What materials made up the nebula's ice?	
m	ostly Hyrogen and some Helium	
	c. Describe the nebula's size, compared to today's solar system.	
	Much larger	
	d. Describe the nebula's temperature.	
	Colder	
	e. Describe its motion.	
	Slowly rotating	
	f. Describe its shape.	
	No shape	
23.	As time passed, the size of the nebula changed.	
	a. Describe the change in its size.	
	Got Smaller	
	b. Why did the nebula's size change in this way?	
	Gravity compressed it	
24.	As the size of the nebula changed, its motion also changed. Describe the change in the nebula's motion.	
-	Spun faster	
7		
25.	The change in the nebula's motion caused a change in its shape. What shape did it become?	
	Disk	
26.	Describe how the temperature of the nebula began to change. Did it heat up or cool down?	
20.		
	Heated up	
27.	Why did the temperature begin to change?	
	Production of the seal by grave	1/2
	Because it was compressed by grav.	1

	28.	Birth of The Sun:
		a. Our sun's energy comes from a process called Muclear fusion
		b. Our sun's main fuel is Hydroger.
		c. When this fuel is used up, it turns into
U f	29. Frozer	Why don't the inner planets have large gas layers, like the gas giants? and blown away by the sun.
	30.	The planets are in stable orbits. They do not fly away from the sun, and they do not get pulled in to the sun.
		a. What prevents the planets from flying away from the sun? Gravity
		b. What prevents the planets from being pulled in to the sun? Monentum
	Part 3:	The Young Earth
	31.	The early Earth was a hot, molten liquid. What caused the outside of the Earth to form a solid crust?
	J1.	The coolness of outer space
	32.	Scientists used rock samples to find the age of the earth. Where did they get those samples? Me feori fes
	33.	What is the approximate age of the Earth? 4,6 Billion Years
	34.	How do scientists think the moon was created? Another planet hit the Earth and broke off material that became the moon.
	35.	According to the video you watched, where do scientists think much of the Earth's water came from? Me teor, tes/meteors
	36.	Before about 3.5 billion years ago, there was no oxygen on the Earth. Scientists think the Earth's oxygen
		was first produced by blue-green algae (Cyano bacteria)
	37.	Where did most of our planet's coal, oil, and gas deposits (i.e. "fossil fuels") come from?
		Decayed Plants that were covered
		Decayed plants that were covered up by layers of soil and rock

Part 4: The Greenhouse Effect

Water is the number one greenhouse gas. List the next two most important greenhouse gases, and list one source of each of them.
Greenhouse gas: Carbon Pioxide Comes from: Decomposition and Burning Fossil Fuels
Greenhouse gas: Methane Comes from: Swamps, Com Platus (farts)
What effect do atmospheric greenhouse gases have on infrared radiation (heat radiation)?
Greenhouse gases block infrared radiation
What effect do atmospheric greenhouse gases have on sunlight?
Greenhouse gases allow sunlight to pass through
Where does most of the infrared radiation (heat radiation) in our atmosphere come from?
Infrared is given off by the Earth's worm surface
Explain briefly how greenhouse gases warm the atmosphere? Make sure that you describe the role of sunlight, greenhouse gases, the Earth's surface, and infrared radiation. In light passes through 6H6s in the atmosphere warms in the first Earth's Surface warms in the gives off infrared radiation that is held in by 6H6s.
Actual greenhouses are used to raise plants that need a warm environment. What part of a greenhouse
plays the same role that greenhouse gases play in Earth's atmosphere?
The glass in a greenhouse is like
the greenhouse gases in our
atmosphere. It lets sunlight in,
but it prevents infrared radiation
from escaping.