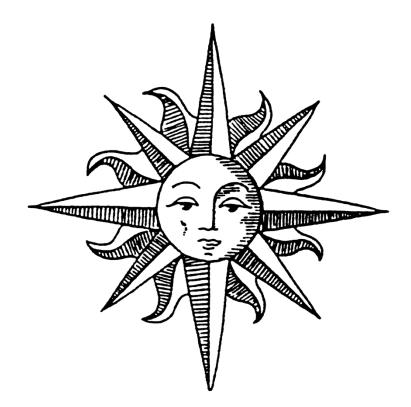
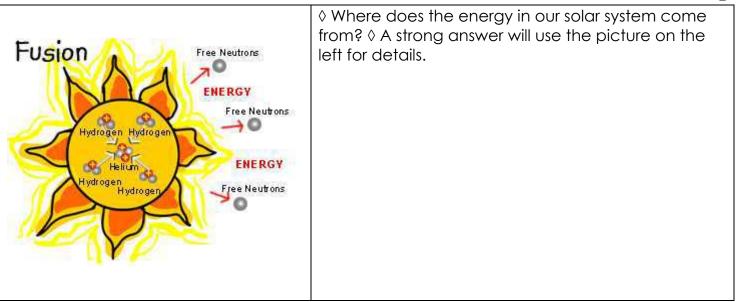


Please list ten factoids about the sun around the picture below. Color to your taste!

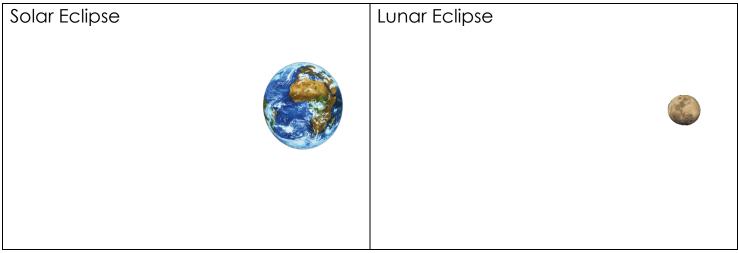




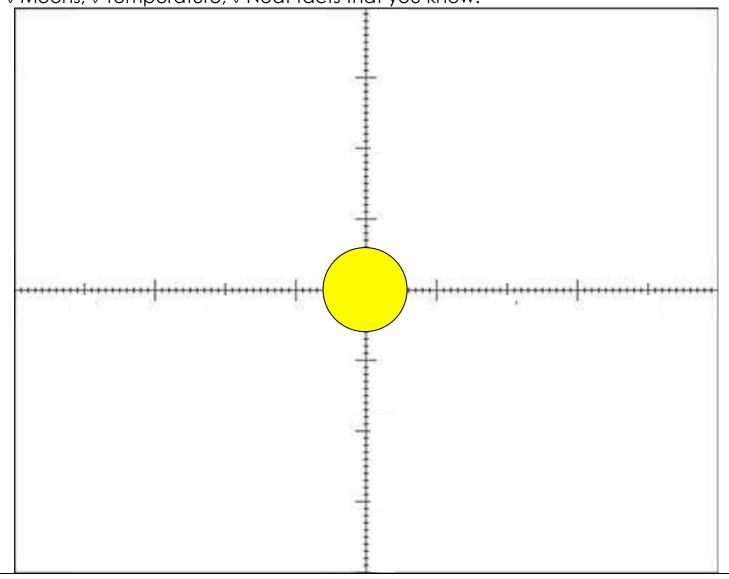
Use the boxes below to DRAW and DESCRIBE the life cycle of a generic star. You can pick its future!

If the Circle is a Sup draw our sun next to below.	 What is an exopla some information a exoplanet below. Visit <u>http://exoplane</u> (Do this question at 	bout any ets.org

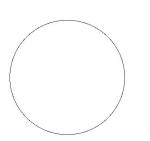
Please use your knowledge of a solar and lunar eclipse by drawing a visual in the boxes below.



Provide information about the inner planets below next to each planet. ◊ Sketch of all the planets ◊ Size, ◊ Composition, ◊ Rotational Period, ◊ Year, ◊ Moons, ◊ Temperature, ◊ Neat facts that you know.

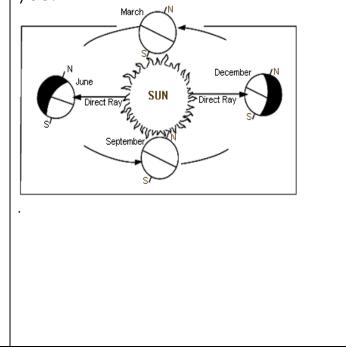


Please draw the axis of the earth below as it spins around our solar system on the elliptical plane.



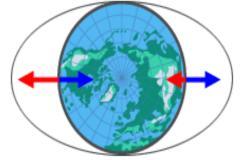
Provide some information about our home planet earth below.

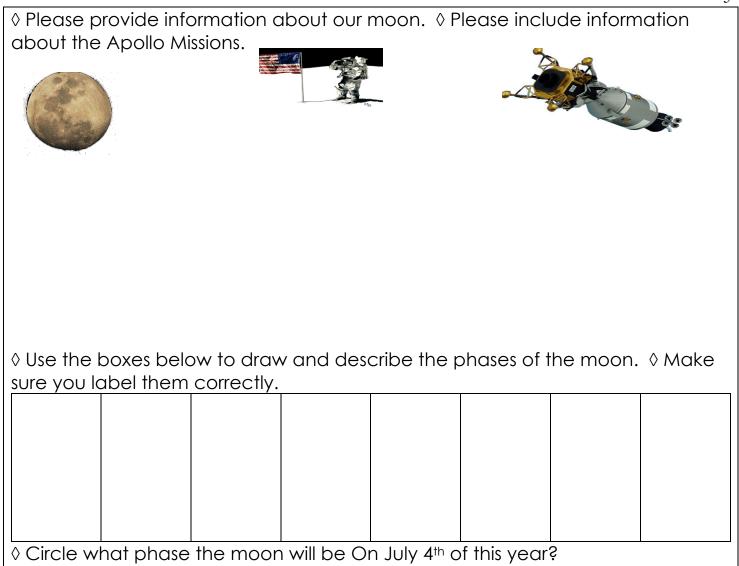
Why does this axis cause a change in the seasons? Use the picture to help you.



Please describe how the earth, moon, and sun create tides.
How many tides do we have a day? The picture below can help you.
What will the tide be at 12:15 PM on the 4th of July of this Year?







Tell me all that can about this planet and these pictures.





Why doesn't the Earth have as many craters as other planets?

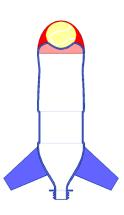


◊ Describes earth's violent past with regard to impact events?

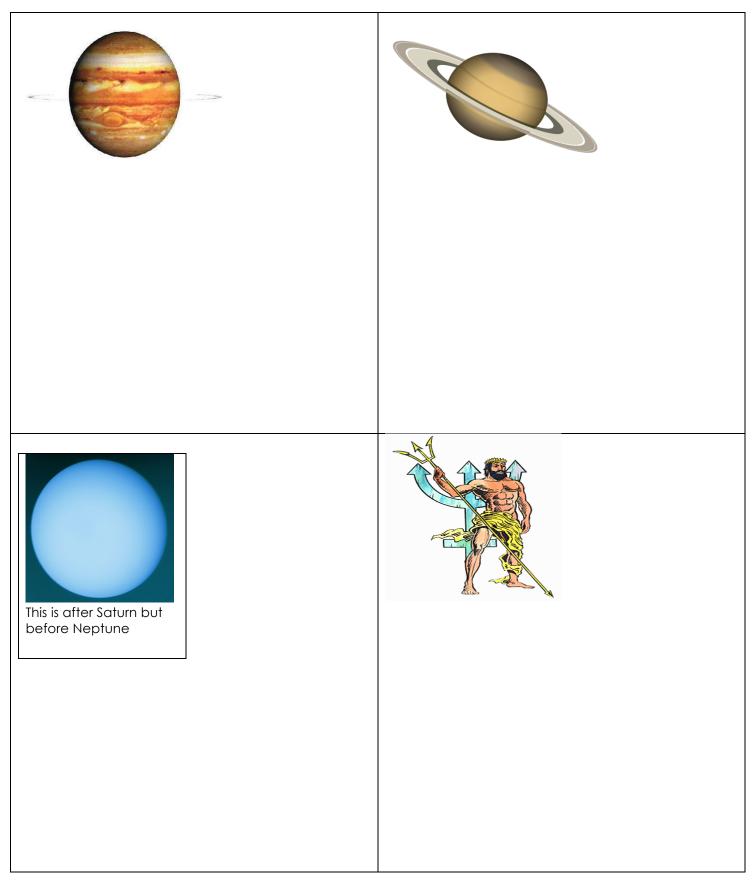
- What may the future bring us?
- ◊ What is the difference between an asteroid, meteor, and meteorite?



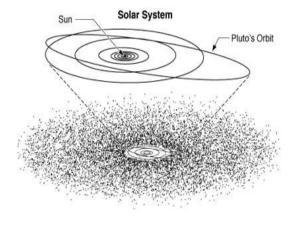
◊ Please describe the parts of a rocket below. ◊ What are some parts of a basic rocket and how do they work?



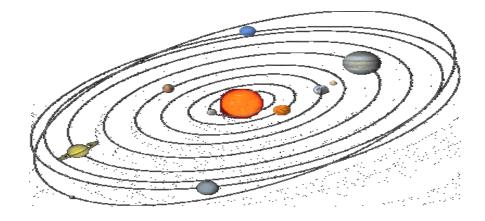
◊ Please provide some information about the outer planets below. ◊ Size, ◊ rotational period, ◊ year, ◊ moons, ◊ composition, ◊ temp. ◊ Other facts.

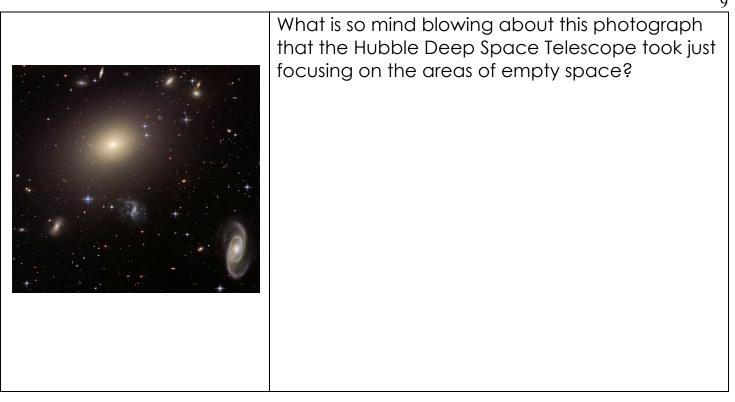


Should Pluto be reinstated as a planet instead of a Dwarf Planet?
Use your knowledge of the 70,000 objects in the Kuiper Belt within your answer.



Please draw a typical orbit of a comet in our solar system. Provide a few pictures showing the tail. Label the objects in the solar system as well.





Draw and or describe the following terms.

Quasar	Nebula	Sketch th (lab	Ś	
		Spiral	Barred	
Pulsar	Speed of Light	Elliptical	Irregular	
Neutron Star				

Venus	Ψ	Ą	Q	Q	Saturn	Uranus	22
What is the Evidence	he Big Bang	Theory?		Describe ti you can?			
		Time	° S			<u>IIII</u>	H

Singularity

Y

10

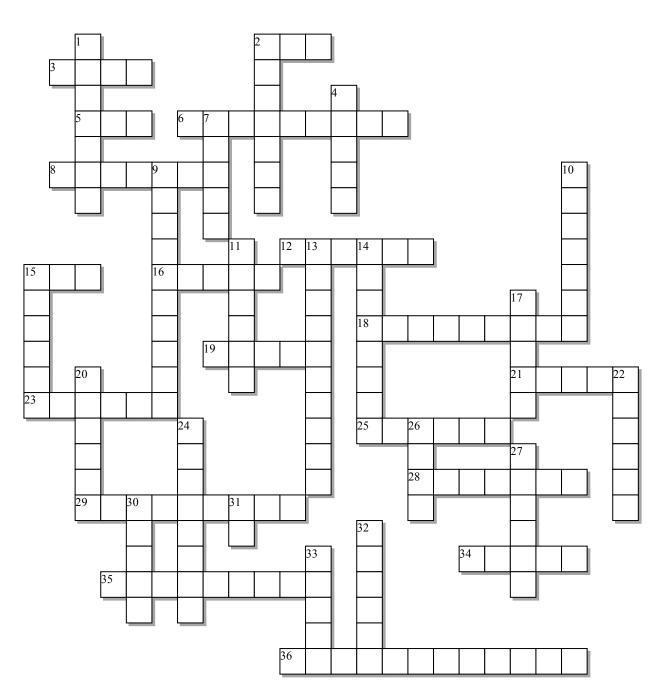
11
Please name and provide information about the pictures below.
> Who owns them?
What do they do?
What are some of their parts?
> How do they use or get energy?
lance the terms (planet (other are cigted with the following words. If you don't know
Name the terms / planet / other associated with the following words. If you don't know
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U	W	Ι	S	0	U	R	R	S	Т	Е	S	F	Ν	0	Т	М	Υ	Ρ	Ν
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Words associated with Astronomy Topics can be found in the word search above. Please circle and then record **at least 15** in the boxes below. There are 49 words total.

1)	2)	3)	4)
5)	6)	7)	8)
9)	10)	11)	12)
13)	14)	15)	16)
17)	18)	19)	20)

Name:_____



Possible Answers:

Asteroids, Astronomical, Astronomy, Bang, Blackhole, Comet, Earth, Full, Galaxy, Giant, Gravity, Hubble, Hydrogen, Io, ISS, Jupiter, Kuiper, Lunar, MC2, Mercury, Meteorite, Nebula, Neptune, Neutron, Notation, Orbit, Plasma, Quasar, Relativity, Relativity, Saturn, Solar, Spring, Sun, Tides, Titan, Uranus, Venus

ACROSS

2 - E=___

3 - Phase of the moon between waxing gibbous and waning gibbous

5 - International Space Station

abbreviation

6 - A region of space resulting from the collapse of a star with an extremely high gravitational field.

8 - Type of star leftover when a large star collapses. (Creates Black hole)

12 - 3rd largest planet, mostly made of methane that absorbs red and reflects blue

15 - By far the largest object in our solar system

16 - Largest moon on Saturn

18 - Natural science that deals with the study of celestial objects

19 - The path (usually elliptical) of one celestial body in its revolution around another.

21 - This planet has a strong EM field that protects it.

23 - Large group of stars, gas, and dust that constitute the universe. By a large group, we mean hundreds of billions.

25 - Large cloud of gas and dust which can form stars and galaxies

28 - Outermost gas giant, made of some molten Rock, methane, water, ammonia 29 - Rocky and metallic objects that orbit the Sun but are too small to be considered planets.

34 - Gas _____: A large, massive, lowdensity planet composed primarily of hydrogen, helium, methane, and ammonia in either gaseous or liquid state. 35 - Space matter that has fallen to the

earth's surface from outer space.

36 - AU = _____ Unit, Distance from earth to the sun. (93 Million Miles, 150 Million Kilometers)

DOWN

1 - Largest Planet in the solar system. (63+ moons)

2 - Closest planet to the sun in our solar system

4 - Type of eclipse when the moon passes between the Sun and the Earth so that the Sun is wholly or partially obscured

7 - Type of eclipse when the earth

interrupts light shining on the moon 9 - General _____: A theory of the structure of spacetime.

10 - The force of attraction between all masses in the universe.

11 - This planet could float in water, second largest in solar system

13 - Special _____: The laws of physics are equally valid in all frames of reference moving at a uniform velocity.

14 - Scientific ______: A method for expressing, and working with, very large or very small numbers.

15 - The type of tide when the moon and sun are aligned (larger tide)

17 - A frozen mass (3-5 mile diameter) that travels around the sun in a highly elliptical orbit.

20 - This state of matter is electrically charge particles and makes up our sun.

22 - Name of a space telescope

24 - The is made up mostly this element

26 - Big _____ Theory: The cosmic explosion that is hypothesized to have marked the origin of the universe.

27 - Gigantic grouping of powerful stars.

30 - _____ are the rising of Earth's ocean surface caused by the gravitational forces of the Moon and the

Sun acting on the oceans. 31 - Moon of Jupiter that looks like a rotten orange.

32 - _____ Belt: A disk-shaped region of minor planets outside the orbit of Neptune.

33 - Earth's sister planet, very hot.