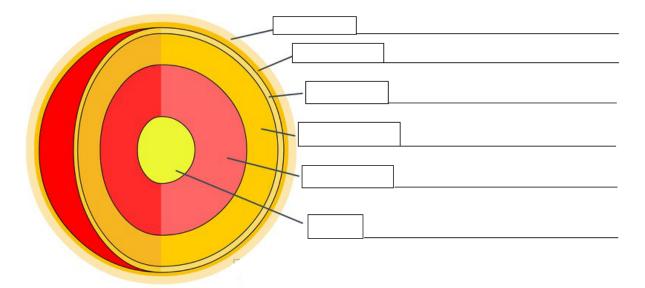
## REVIEW PLANETS AND SUN

N	Q	M	G

- What is the best definition for our sun?
   Burning ball of gas / star of average age and temperature / source of solar flares
- 2. How does fusion work?
- 3. How would you describe the amount of matter that goes into the reaction compared with the energy that comes out of the reaction?
- 4. What are the 2 most common elements in our star?
- 5. Which elements can the sun make?
- 6. As the sun ages, how will the concentration of elements change?
- 7. What elements can only be made in a supernova explosion? (which numbers?)
- 8. Label the sun's layers, then tell what each layer does.



- 9. What is sunspot maximum? Minimum?
- 10. During which one is there more cell phone, radio, and TV interference?
- 11. If solar wind could hit earth, what would be the result?
- 12. Why doesn't solar wind hit earth?
- 13. How does the equator of the sun rotate compared to the poles?

Fill in the table

	Ejects	Comes from?	Shape?	Size?
	material?	(caused by?)		
	(how			
	much?)			
CME/ prominence				
Solar flare				
Coronal loop				
sunspot				

- 14. What does a light year measure?
- 15. How far is a light year?

16. Compare and contrast the Kuiper belt and the Oort cloud

Alike	different
7. Name the solar system object:	
Polar ice caps of frozen carbon diox the biggest volcano in the solar system, Olymp	kide and water. Red color caused by iron oxide. Has ous Mons.
Almost no atmosphere allowing me from 450 degrees C to -170 degrees C. (very h	eteors to make many craters. Temperature range ot, then very cold)
90 times greater atmospheric press they are like melted chocolate.	ure than Earth. Sulfuric acid clouds. Rocks so hot
Tilt of axis almost completely sidew gives it blue green color.	ays. 27 moons, one called Miranda. Methane gas
Found in the Kuiper belt. Composed in the same plane as the other planets. Called	of rock and ice. Has a very elliptical orbit that is not a planetesimal.
1 1/2 times greater volume and 2 tir moons (4 we are interested in) and has a red s	mes greater mass than all other planets combined. 62 pot.
Second-largest planet, but lowest de which has a nitrogen atmosphere and maybe l	ensity so would float in water. Has Moon called Titan ife? Very large rings.
Frozen methane gas gives it green b Triton), God of the Sea.	olue color. 13 moons (one we are interested in called

How do some scient	ists believe the solar sy WORD BANK	rstem formed?(11pts)	
star	friction	temperature	
dust	gases	inner	
gravity	million	giants	
gas	winds	J	
dust and gas toward to lot of This degrees Celsius. At the little and blew back the collisions between gar	the center of the cloud. As caused the in its point a was ne a lot. Collisses created the gaseous	All of the atoms began to he of the center of the cloud to born. Next, the solar ions between rocks created	began to pull the it each other and created a o reach 10 blew back the rocks a d the planets and
18. What is the cycle of s	solar activity?		
19. What are the fancy n	names for the northern and	I southern lights?	
20. Explain how the nort	hern lights happens.		
21. What is the difference	ce between a moon and a p	olanet?	
22. Define asteroid belt			
Fill in the chart			
	Size?	Made of ?	Located where?
Asteroid			
Meteoroid			
Meteor			
meteorite	L		
1]	ces between a nuclear and 2] ies between a nuclear and 2] de of ?	3]	
26. When does a coma f	form?		
27. Where does a comet	's ion/gas tail point?		
28. What prevented the	asteroids from becoming a	a planet?	
29. What is the difference	e between a terrestrial pla	net and a gaseous giant plan	et?

Name the nine planets in order from the sun outwards. Label each planet as being terrestrial (T), gaseous giants (G), or planetesimal (P). Put an arrow to locate where the asteroid belt is (19pts)

	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
	object								
	from								
	Sun								
Name									
Type									

Which planet do these moons belong to?							
	Planet it is from (extra credit)		Planet it is from (extra credit)		Planet it is from (extra credit)		
Phobos		Europa		Titan			
Deimos		Callisto		Triton			
Ganymede		lo		Charon			