Name	ReTEST Date	Hour
	All Practice work MUST be completed prior to the first test date	
	ReTest Practice must be completed and checked by the day pr	rior to retesting
	You must schedule a retest time with upour teacher	

## Astronomy #4 - The Moon, the Stars & the Galaxy

## **ReTest Practice**

Refest Plactice
1. Compare the following, in terms of size, to each other. Place in order from LARGEST (1) to Smallest (6). solar system planet moon universe star galaxy
2. The moon orbits the Earth making it what is called a natural
3. The moon is getting ((closer to, further away from) the Earth every year. What is the approximate distance of the change?
4. Identify the length of time it takes for each of the following situations to take place.
The time required for the moon to revolve (orbit around) the Earth.
The time required for the moon to make one full rotation.
5. What affect does the moon's rotation and revolution have on the face of the moon that we see on Earth?
Rotation -
Revolution -
6. The moon has many craters. Explain why.
7. Little kids think the moon gives off its own light which is why we can see it. EXPLAIN the light of the moon.

8. As the moon moves AWAY from the sun and more and more of the moon becomes visible,

	As it moves TOWARD the sun and becomes less visible we at least two differences between a gibbous moon and a crescent moon.  Gibbous Moon  Crescent Moon				
9. Describe at least					
Gibbous Moon			Crescent Moon		
10. Use the diagram them from Earth.	below to name and	illustrate the pha	ses of the Moon as y	you would see	
A	—				
В	$ \bigcirc$	D	C B	<b>-</b>	
C				<del>-</del>	
D	(		North Pole A	Sun's rays	
E		Ea	arth	<del></del>	
F		F	H	<del></del>	
G		(1)	Not drawn to scale)		
н					
11. Draw the correct	t positions of the Ear	th, Moon and Sui	n for a LUNAR eclips	se to occur.	

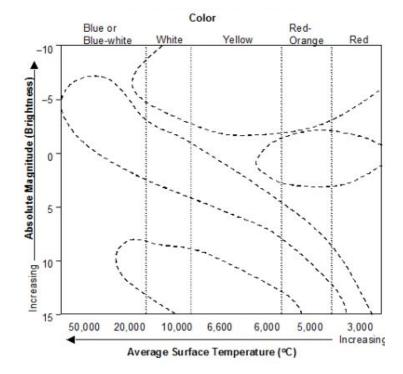
12. Draw the correct positions of the Earth, Moon and Sun for a SOLAR eclipse to occur.

14. What are the two types of energy we receive on Earth from the sun? and								
15. Identify three ways in which starts  •  •  •	s can differ from each other.							
Use the diagram below to answer the t	following questions.							
	Hertzsprung-Russell Diagram							
16. In what unit is the surface	Blue or blue-white White Yellow Red-orange Red							
temperature of the stars measured?	Zeta Eridani Spica Supergiants  Supergiants  North Star (Polaris) Antares  Canopus							
17. Identify the labels for each of the axis.	Main sequence Regulus Algol Capella Aldebaran Arcturus Sirius Procyon Altair Alcor Altair							
Y - axis	Sun Alpha Centauri A Tau Ceti Alpha Centauri B							
18. Use the following pairs to label the diagram on a star's brightness and temperature.	Sirius B  White dwarfs Procyon B Van Maanen's star							
Hot & Bright Cool	50,000 20,000 10,000 6,000 5,000 3,000							
& Dim  Cool & Bright F	Surface Temperature (°C) Hot & Dim							
19. Which star is hottest, Sirius, Betelo	geuse or Rigel?							
, , ,	e, Vega, Centauri B?							
21. Which star is cooler, Mira or the Su	un?							
22. Which star is brighter, Spica or the	e Sun?							
23. The of a star w	vill affect its brightness.							

24. Another term used on HR diagrams to mean brightness is \_\_\_\_\_

25. Plot these stars on the HR-Diagram and determine their color.

Letter	Temperature	Luminosity	Color
Α	10,0 <b>0</b> 0°C	-2	
В	5,000°C	0	
С	6,000°C	-8	
D	9,500°C	10	
E	3,000°C	2	



26. At different times of the year, different stars are visible at night. Explain why.

27. Why does Polaris seem stationary (doesn't move) in the sky?

28. Polaris is also known by a more common name which is \_\_\_\_\_\_\_.

29. The \_\_\_\_\_ is the galaxy our solar system is part of in outer space.



30. Describe the shape of our galaxy?

Can we see the shape from Earth? Why or why not?

