Name:		Class #:	
Date:		Science	
	<b>Unit #2 Review: Astronomy</b>		

## Part I: Vocabulary

<u>Directions</u>: Choose a word from the word bank for each question. The vocabulary term can only be used once.

Asteroid	Big Bang Theory	Comet	Constellation
Coriolis Effect	Doppler Effect	Eccentricity	Eclipse
Ellipse	Focus	Foucault Pendulum	Galaxy
Geocentric Model	Heliocentric Model	Impact Craters	Inertia
Jovian Planet	Luminosity	Meteor	Milky Way Galaxy
Moon	Phases (of the Moon)	Red Shift	Revolution
Rotation	Solar System	Star	Tides
Terrestrial Planet	Universe		

	Moon	Phases (of the Moon)	Red Shift	Revolution		
	Rotation	Solar System	Star	Tides		
	Terrestrial Planet	Universe				
<ol> <li>2.</li> </ol>	Caused by an increased distance between the observer and the sour of the electromagnetic energy.  The movement of one body around another body in a path called a					
3.	orbit.  The concept that an object at rest will tend to remain at rest and the an object in motion will maintain the direction and speed of that motion until an opposing force affects it.					
<ol> <li>4.</li> <li>5.</li> </ol>		moves into the The modern co	shadow of another cele	s and their motions, in wh		
		Part II: Earth Scien	_			
Dir	rections: Use pg. 15 of the	Earth Science Reference Tab	les to answer questions	5 through 15.		
6.	Which planet's orbit around the Sun is most nearly circular? (1) Mercury (2) Neptune (3) Earth (4) Venus					
7.	The Sun is best described as  1) very large star  (3) red star  2) medium-sized star  (4) cool star					
8.	The same side of the moon always faces Earth because the (1) Moon's period of rotation is longer than its period of revolution around Earth (2) Moon's period of rotation is shorter than its period of revolution around Earth (3) Moon rotates once as it completes one revolution around Earth (4) Moon does not rotate as it completes one revolution around Earth					
9.	A main sequence star is 1, nearly (1) 3,000K (2) 12,000K	(3) 5,000K (4) 25,000K	s than the Sun. The ter	mperature is likely to be mo		
10.	. A belt of asteroids is located an average distance of 503 million kilometers from the Sun. Between which two planets is this belt located?  (1) Mars and Jupiter  (3) Jupiter and Saturn					
11.	(2) Mars and Earth Which type of star is asso (1) main sequence star (2) supergiant	(4) Saturn and U	Uranus in the evolutionary dev	elopment of most stars?		
12.	In our solar system, the o (1) circular, with the plane (2) circular, with the Sun a (3) elliptical, with the plane	et at the center at the center	est described as			

13. As star color changes from blue to red, the surface temperature of the star(1) decreases(3) remains the same

(2) increases

- (=) morewee
- 14. Compared to the Jovian planets, the terrestrial planets are (1) smaller and more dense
  - (2) larger and more dense
  - (3) farther from the Sun and more rocky

(4) elliptical, with the Sun at one of the foci

(4) closer to the Sun and less rocky

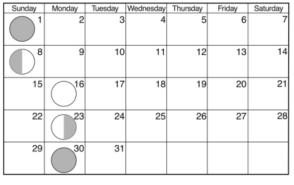
15. Put the following stars in order of increasing temperature: Aldebaran, Sirius, Spica, Barnard's Star, and the Sun.

Answer: \_\_\_\_\_ > \_\_\_\_ > \_\_\_\_ > \_\_\_\_ > \_\_\_\_ >

## Part III: Earth's Moon

Base your answers to questions 16 through 20 on the calendar below, which shows the month of July of a recent year. The dates of major Moon phases, as seen in New York State, are shown.

16. The diagram below represents the phase of the Moon observed from New York State one night during the month of July.



July



On which date was this phase of the Moon visible in New York State?

(1) July 4

(3) July 19

(2) July 11

- (4) July 26
- 17. On which dates would the highest high tide occur?
  - (1) July 1 and July 8

- (3) July 8 and July 16
- (2) July 1 and July 16
- (4) July 16 and July 23
- 18. On which date would a solar eclipse occur between the Sun, Earth, and the Moon?
  - (1) July 8

(3) July 23

(2) July 16

- (4) July 30
- 19. What is the approximate length of time the Moon takes to travel from new -to- new Moon phase?
  - (1) 1 day

(3) 30 days

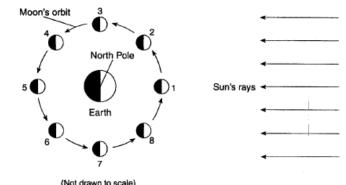
(2) 15 days

- (4) 365 days
- 20. Which orbital position of the Moon could be observed on July 23?
  - (1) 1

(3) 3

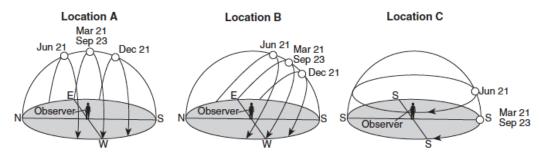
(2) 5

(<del>4</del>) 7

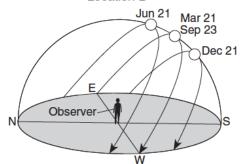


Part IV: Sun's Path

Base your answers to questions 21 through 25 on the diagrams below, which show the apparent path and solar noon positions of the Sun on specific dates at three different locations on Earth.



- 21. What evidence indicates that the observer at location A is at the equator?
- 22. Explain why the observer's shadow at location B will always point northward at solar noon.
- 23. On the following diagram, draw a line representing the apparent path of the Sun at location B on August 21.



24. How many hours o	f daylight are seen by the observer at location C on June 21?
,	, , , , , , , , , , , , , , , , , , , ,
25. Calculate the altitud	le for the Sun's path for location B for the following seasons when the observer is
located in Massena,	
Summer Solstice:	0
Winter Solstice:	0
Equinox:	0
1	