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Earth & Space Exam Review Guide 2018

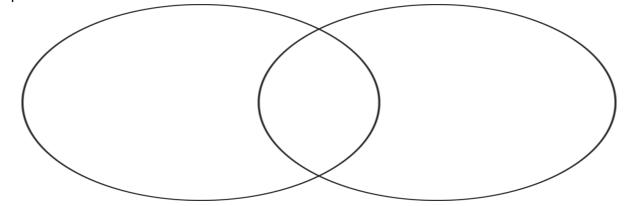
Topics to Review: Day/Night Cycle, Shadow movement, Sunrise/Sunset directions, Time zones (why we have them and the 4 in the mainland USA), Eclipses (Lunar & Solar), Reason for the seasons (tilt, direct/indirect sunlight, length of daylight), Moon phases, tides, Marking time.

Vocabulary you should know:

/ /		
Axis	Gibbous	Revolution
Crescent	Rotation	High tide
Orbit	Sundial	Low Tide
Equator	Tilt	Extreme Tide
Tropics	23.5°	Gravity
Hemisphere	Seasons	Equinox
Leap Year	Counterclockwise	Equinox (3/21 & 9/21)
Solstice (6/21 & 12/21)	365	Lunar
Waxing	Solar	Waning
Time Zone	Eclipse	Shadow
24 Hrs	Noon	

Questions:

- 1. During the day, why do the shady spots of a tree keep moving? Be specific and detailed! (*Hint: you may draw a picture also to help you check textbook page F-18):
- 2. Compare & Contrast: REVOLUTION and ROTATION



- 3. How many world time zones are there?
- 4. Why are there that many time zones?
- 5. List the 4 United States time zones and give an example of a state within each time zone!

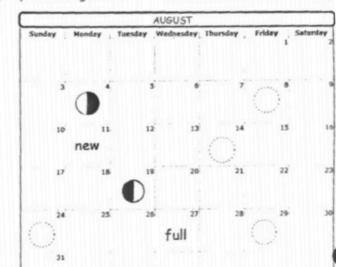
6.	Which season has the shortest amount of daylight, the least direct sunlight and the lowest sun angle?
7.	Which season has the longest amount of daylight, the most direct sunlight and the highest sun angle?
8.	What causes the yearly cycle of the seasons on Earth?
9.	In the space below, draw a quick model of the Sun-Earth system that explains why we have seasons:
10.	Three parts: a. Draw a picture of a rotation b. define the word rotation c. label how long it takes for Earth to rotate one time
11.	Three parts: a. Draw a picture of a revolution b. Define the word revolution c. label how long it takes for Earth to revolve around the Sun.
12.	What causes the direction and length of shadow to change throughout the day?
13.	If a shadow keeps getting smaller and smaller, what time of day is it? (Morning, noon, or afternoon). EXPLAIN WHY!
14.	What happens to the LENGTH of daylight hours after June 21st (Think!).

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16. What would happen if Earth was only tilted 5°

DRAW the moon phase.

Label the moon phase on every day of the August calendar below. If there is a dotted circle,



18. Fill in the table below by drawing the Earth VIEW and the SPACE VIEW for New & Full Moons

MOON PHASE	SPACE VIEW DRAWING	EARTH VIEW DRAWING
FULL MOON		
NEW MOON		

19. How long does one complete LUNAR cycle take?

20. List the moon phases in order, starting with NEW MOON:

- 21. During which two moon phases do we have extreme tides?
- 22. What do you think would happen if Earth spun on its axis every 5 hours instead of every 24 hours? How would life change on our planet?
- 23. Label the moon phases in the diagram below (**Note where the sun is!)

