Unit 2 Study Guide Key

When is your Unit two test? \_\_\_ Friday\_\_\_\_\_\_\_\_

1. Put the phases of the moon in order starting with a new moon.

 ~~New Moon~~ ~~Full Moon~~ ~~3~~~~rd~~ ~~Quarter Moon~~ ~~Waxing Gibbous~~

 ~~Waning Crescent~~ ~~1~~~~st~~ ~~Quarter Moon~~ ~~Waning Gibbous~~ ~~Waxing Crescent~~

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| New Moon | 2 Waxing Crescent | 3 1st Quarter | 4 Waxing Gibbous |
| 5 Full Moon | 6 Waning Gibbous | 7 3rd Quarter | 8 Waning Crescent |

1. Use the following words to complete the sentences: Orbit, revolve, rotates.
	1. The Earth \_\_rotates\_\_\_ on its axis.
	2. The Earth \_\_\_\_revolves\_\_\_\_\_ around the sun and the path it takes is called is \_orbit\_\_\_.
	3. The Moon \_\_\_revolves\_\_\_\_\_\_ around the Earth and the path it takes is called is \_\_\_orbit\_\_\_\_.
2. Complete the sentences about the moon:
	1. Waxing means that the part of the moon that you see is getting \_\_larger\_\_\_. The side of the moon that you will see when it is waxing is the \_\_\_right\_\_\_\_\_\_\_ side.
	2. Waning means that the part of the moon that you see is getting \_\_smaller\_\_\_\_\_. The side of the moon that you will see when it is waning is the \_\_\_\_left\_\_\_\_\_\_ side.
	3. When there is a full moon the \_\_Earth\_\_ is between the \_\_\_Moon\_\_\_ and the \_\_Sun\_\_\_.
	4. When there is a new moon the \_\_\_Moon\_\_\_ is between the \_\_Earth\_\_\_ and the \_\_Sun\_\_.
3. Why do we see phases of the moon?

\_\_\_The moon reflects sunlight. As the moon revolves around the Earth we see different amounts of the sunlit side of the moon.\_\_\_\_\_\_\_\_.

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|  | Drawing of Moon, Earth and Sun | Drawing of Moon, Earth and Sun | Strong or Weak?Straight Line, or 90° | What phases of the moon does it occur? |
| Spring Tide |  |  | Strong TidesStraight Lines | New MoonFull Moon |
| Neap Tide |  |  | Weak Tides90° | 1st Quarter3rd Quarter |

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|  | Drawing of Moon, Earth and Sun | Why does it occur? | What phases of the moon does it occur? |
| Solar Eclipse |  | The moons shadow falls on the Earth. Your view of the sun is blocked. | New Moon |
| Lunar Eclipse |  | The Earth’s shadow falls on the Moon. You can no longer see the moon because it has no sunlight to reflect. | Full Moon |

1. What causes seasons?

\_\_The tilt of the Earth causes different parts of the Earth to receive different amounts of indirect and direct light.

1.  What season is the Northern Hemisphere experiencing and why?
The Northern Hemisphere is experiencing summer because it is tilted toward the sun and is receiving more direct light. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What season is the Southern Hemisphere experiencing and why?
\_The Southern Hemisphere is experiencing winter because it is tilted away from the sun and is receiving more indirect light.\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. When the Earth rotates one time we have experienced a \_\_\_day\_\_\_\_\_\_.
2. When the Earth revolves one time we have experienced a \_\_\_year\_\_\_\_\_.
3. Tell me everything you know about what is going on, or could be going on, when the moon is in position A.
\_\_\_\_Full moon, lunar eclipse or a spring tide
4. Tell me everything you know about what is going on, or could be going on, when the moon is in position D.

 \_\_\_Spring Tide, New Moon, Solar Eclipse\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Tell me everything you know about what is going on, or could be going on, when the moon is in position B.

 \_\_\_\_\_\_1st Quarter Moon, Neap Tide\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Tell me everything you know about what is going on, or could be going on, when the moon is in position C.

 \_\_\_\_\_Waxing Crescent Moon Phase\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_