

# Moon and Tides Study Guide

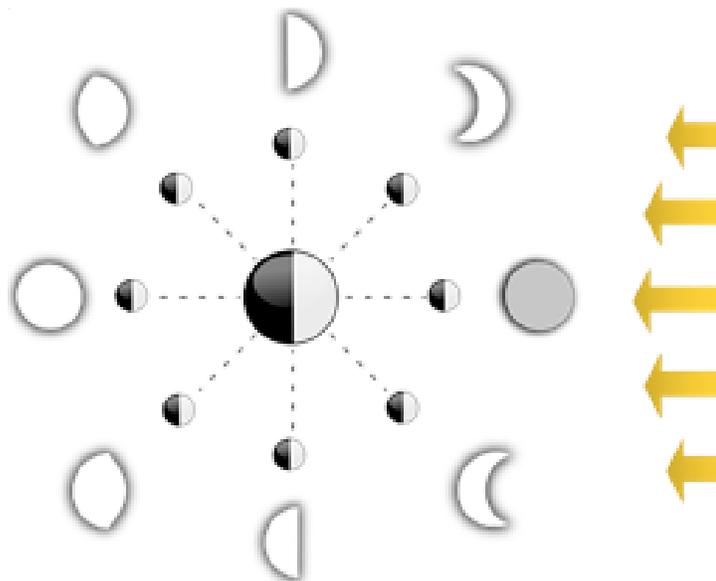
*It will be a closed note and book test*

Know the meaning and application of these vocabulary words.

Waxing Waning Tide(s) Rotation Revolution	<b><u>Word Bank</u></b> Phases of the Moon Crescent Moon Gibbous Moon Lunar	Spring Tide Neap Tide Perigee Apogee
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Fill in the blanks

1. A moon that is getting darker every day is \_\_\_\_\_.
  2. A \_\_\_\_\_ tide has the highest and lowest tides of the month.
  3. The gravity of the moon is the main reason for the \_\_\_\_\_.
  4. The moon is closest to the Earth at \_\_\_\_\_.
  5. A \_\_\_\_\_ moon is more than half lit up.
  6. A \_\_\_\_\_ tide is when there is the smallest difference between high and low tides.
  7. The moon starts \_\_\_\_\_ right after a new moon.
  8. After 3rd quarter, the moon becomes a \_\_\_\_\_.
  9. The moon is farthest away at \_\_\_\_\_.
  10. The \_\_\_\_\_ take about 29.5 days to complete one full cycle.
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1. Label the phases of the moon.
  2. Label the neap tides and spring tides



Do this work in your notebook or on a piece of recycled paper

Draw a top-view model of the following phases. Include the Earth, Sun and Moon.



1. What causes the daily high and low tides? Draw a diagram as part of your answer. Don't worry about explaining the second high tide, just know that it is there.

*The daily tides are caused by ...*

2. Compare and Contrast the spring tides and neap tides? Draw diagrams to support your answers.

Think about:

- a. Gravity
- b. The types of tides we see at those times
- c. The position of the Earth, Sun, Moon
- d. The reasons we see each tide

*The spring tides are when the tides are ...*

*We get neap tides because...*

3. Because the moon's orbit is not a perfect circle, sometimes the moon is closer than at other times. Explain the effect the distance between the Earth and the Moon has on the monthly tides.