

Name: \_\_\_\_\_

Period: \_\_\_\_ Date: \_\_\_\_\_

**Chapter 20 Quiz Review: Tides, Waves, and Currents**

*TIDES*

1. What are tides?
2. How are tides produced? Be specific in your answer (mention sun, moon and Earth).



3. What is tidal range?
4. What is the difference between tidal current and flood current?
5. Compare spring to neap tides. Fill in the following table:

	<b>Spring Tides</b>	<b>Neap Tides</b>
<b>Tidal Range</b>		
<b>Moon Phases</b>		
<b>Diagram</b>		

6. Where do the highest tides in the world occur?
7. What is a tidal bulge? What causes this?
8. How long is the SOLAR day? LUNAR day?
9. Tides are very long, slow waves. What is the wave period of tides (how long between two tides)?
10. What is the difference between diurnal and semi-diurnal tides? Which type of tides occur in North America?

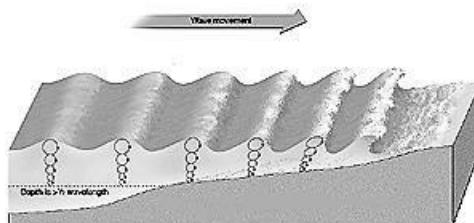
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11. What is the difference between an apogee moon and a perigee moon? How does each one affect the tides?
12. Why are tides important? Give two reasons.

### WAVES

1. What are waves? What are they mostly caused by?
2. What are the 3 things that affect wave size?
3. How does water move in a wave?
4. Draw a regular wave and label it (*wavelength, wave height, crest, and trough*).
5. What happens to wave motion as you go deeper? Where do you stop feeling the motion of a wave?
6. What happens to waves in shallow water? Explain how a wave “crashes” on shore.
7. How do waves impact the coast?
8. How are waves important to organisms in the ocean? Give two reasons.
9. What is a tsunami? What is the main cause of tsunami?
10. What are some differences between regular waves and a tsunami?



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## CURRENTS

1. What is a current?
2. What are surface currents generated by?
3. What is a gyre? Which gyre is on the Atlantic coast of North America? The Pacific coast of North America?
4. What is the Coriolis Effect? How does it affect what happens in the Northern and Southern Hemispheres?
5. Define longshore current. How are rip currents related to longshore currents?
6. What is a deep ocean current? What separates deep ocean currents from the surface?
7. Define upwelling. Why is upwelling important?

