

### Sea Breezes, Land Breezes, & Ocean Currents

**Directions:** Use the textbook (pages 188, 189, 194, and 200 – 204) and your ISN to help you fill in the blanks and answer the questions. Every answer on this sheet, we have talked about in class. Follow the directions. Look at the key words in each statement. You will be having a quiz on this material tomorrow in class. This will be a grade and so will your quiz. Use your time wisely.

1. If you wanted to eliminate wind, you would eliminate the \_\_\_\_\_.
2. Air flows from areas of \_\_\_\_\_ pressure to \_\_\_\_\_ pressure.
3. Earth's atmosphere gets heated by \_\_\_\_\_ from the Sun.
4. During the evening, air flows near a beach from the \_\_\_\_\_ to the \_\_\_\_\_.
5. The \_\_\_\_\_ is warmer during the day because of the heat radiated by the Sun.
6. The \_\_\_\_\_ is the source of all energy on Earth.
7. The Earth's rotation can impact wind. (True or False) Circle the correct answer.
8. A \_\_\_\_\_ breeze is when the cooler air over the ocean moves in towards land.
9. A \_\_\_\_\_ breeze is when the cooler air over the land moves in towards ocean.
10. \_\_\_\_\_ plays a major role on currents at the ocean's surface (surface currents).
11. When looking at diagrams of sea breezes and land breezes, what type of **heat transfer** is present?
12. What causes cold air to sink and warm air to rise?
13. Why is the land warmer during the day than at night?
14. Warm air is associated with \_\_\_\_\_ pressure.
15. Cold air is associated with \_\_\_\_\_ pressure.
16. During the daytime, you would face the \_\_\_\_\_ to feel the breeze on your face.
17. During the day, the breeze that blows will feel cool or warm?
18. Wind is created by differences in \_\_\_\_\_.
19. The strength of the wind depends on temperature differences between the \_\_\_\_\_ and the \_\_\_\_\_.
20. Why is it warmer at the equator warmer than at the poles?
21. Which type of breeze happens during the day?
22. Which type of breeze happens during the night?
23. In which type of breeze does land cool faster than the water?
24. The Coriolis Effect causes currents to \_\_\_\_\_ to the right in the Northern Hemisphere and the \_\_\_\_\_ to the left in the Southern Hemisphere.
25. What powers surface currents?

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

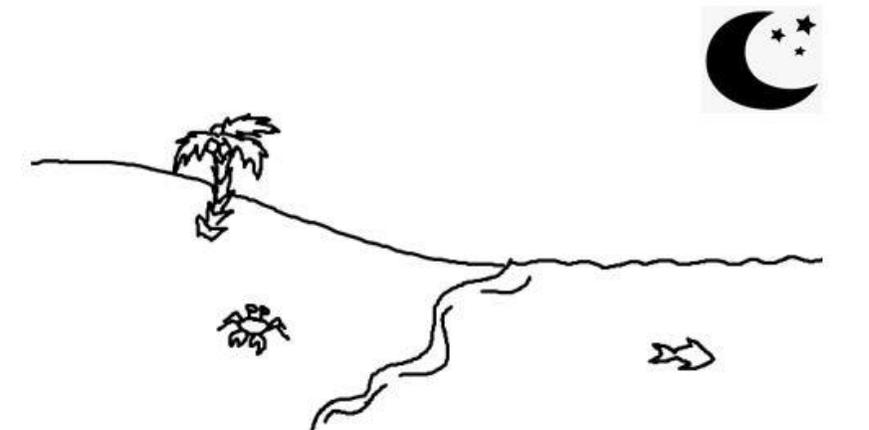
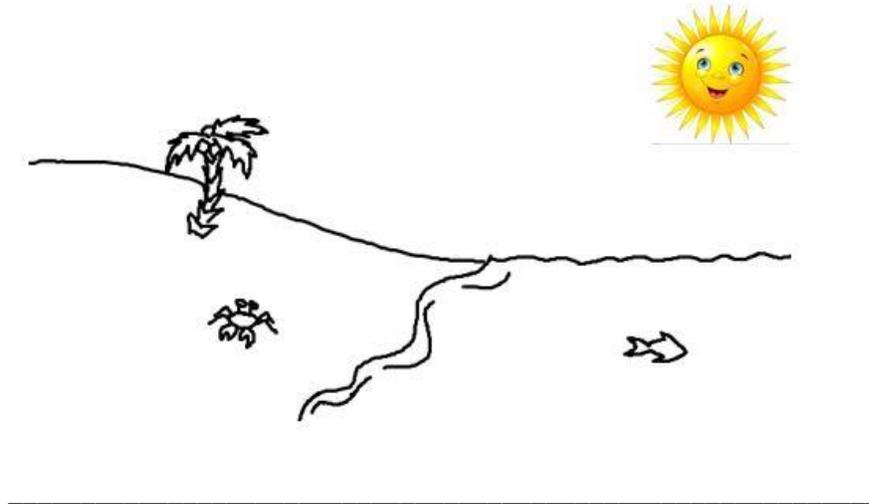
**Directions:** In the following diagrams of a sea breeze and a land breeze:

26. Label the direction of air flow **CORRECTLY**.

27. Label the land warm or cool

28. Label the water warm or cool.

29. Label areas of low and high pressure.



30. Tell me the **BEST** thing that has happened to you this week. 😊