Science Ch. 10 Study Guide	Name
<ol> <li>Ocean currents affect the Earth by</li> </ol>	

# Equalizing the amount of heat throughout the planet; moving warm water from the equator to the poles and cold water from the poles toward the equator.

2. What moderates the temperature of water all over the Earth?

#### **Ocean currents**

3. What changes the ocean currents the most?

#### Wind

4. What is a gyre:

### A cycle of ocean currents

5. What is the main cause of moving sediment down beaches?

#### Wave action; wave movement

6. The movement of water and sand causes what to happen at the beach?

#### They shape the shore.

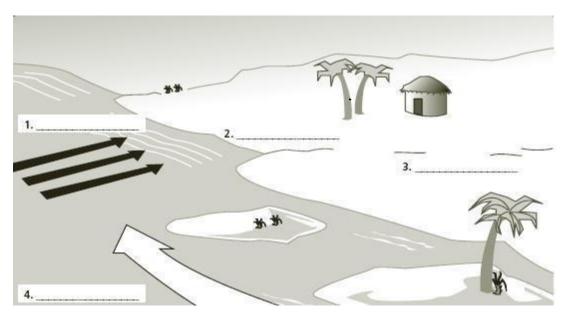
7. Constant change in the location of the shoreline is caused by what movement?

#### Tides moving in and out

8. Why are beaches and coastlines not static and keep changing?

#### Wave action erodes and moves beach materials

9. Look at the following picture and label 1-4.



- 1. Wave movement
- 2. Shore line
- 3. Beach
- 4. Longshore current
- 10. What is a swift current that flows away from a beach called?

## A rip current

11. How do beaches get sand for the beach?

#### **Rivers carrying it from the mountains**

- 12. What are the following sands made out of?
- a. White sand Quartz
- b. Black sand Lava
- c. Green sand Olivine
- d. Pink sand coral