

1. Ocean currents affect the Earth by \_\_\_\_\_  
\_\_\_\_\_.

**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**