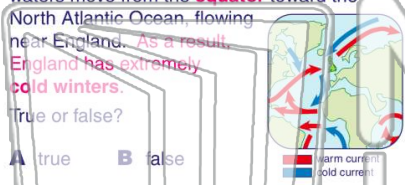




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 Surface currents that begin near the equator, such as the **Gulf Stream current**, are **warmer** than those that begin near the poles. Gulf Stream waters move from the **equator** toward the North Atlantic Ocean, flowing near England. **As a result, England has extremely cold winters.**

True or false?  
 A true B false



2 Southern California can be very hot in the summer months. The **cold-water current** from the North, however, travels southward along the California coast affecting its climate. Due to the cold-water current, compared to **inland**, the climate of California's coast is \_\_\_\_\_.

A relatively cool  
 B unusually hot and humid  
 C hotter than inland  
 D either very cold or very hot



3 Due to the build-up of warm water in the western Pacific Ocean, there is an upwelling of cold water in the eastern Pacific. These **dramatic changes** in surface water temperatures can cause widespread \_\_\_\_\_.

4 The **distance** between the highest points of two consecutive waves is called the \_\_\_\_\_.

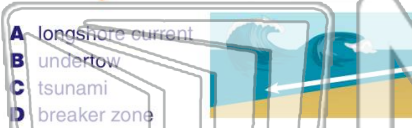
A waveheight      wave      wavelength

**PREVIEW**

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7 oncoming wave or waves. This flow can be dramatic and can pull shells, sediment, and people **out to deep water** very quickly.

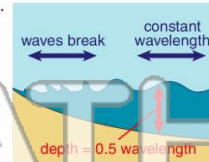
This strong current is called the \_\_\_\_\_.



- A longshore current
- B undertow
- C tsunami
- D breaker zone

water waves become shallow water waves when the **depth** from the wave crest to the ocean floor is \_\_\_\_\_.

- A two times the wavelength
- B four times the wavelength
- C 1/2 the wavelength
- D 1/4 the wavelength



9 When an **earthquake** is centered under the ocean, the **P-wave energy** from the earthquake travels **through the water**. This enormous energy creates waves of tremendous size. These waves are extremely destructive when they hit land.

A wave created by an **underwater earthquake** is called a \_\_\_\_\_.

- A storm surge
- B swell
- C white cap
- D tsunami



10 A large storm, such as a hurricane, creates a change in the ocean called a storm surge.

A storm surge causes \_\_\_\_\_.

- A earthquakes to occur underwater
- B a fast-moving, destructive rise of sea level near the shore
- C a long-lasting high tide
- D destructive waves with wave heights over 20 meters

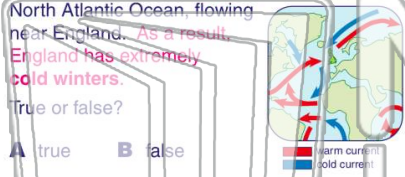




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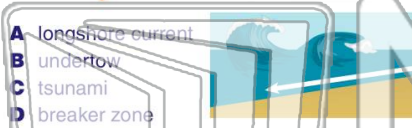
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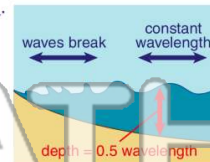
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