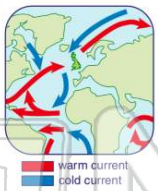
The Movement of Ocean Water

Sci H

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

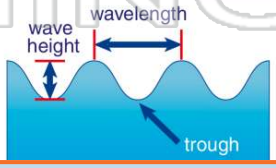
2 Southern California can be very hot in the summer months. The **cold-water current** from the North, however, travels southward along the California coast affecting its climate. Due to the cold-water current, compared to **inland**, the climate of California's **coast** is _____.

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 **climatic** changes. Changes of the position of these cold and warm surface waters is called _____.

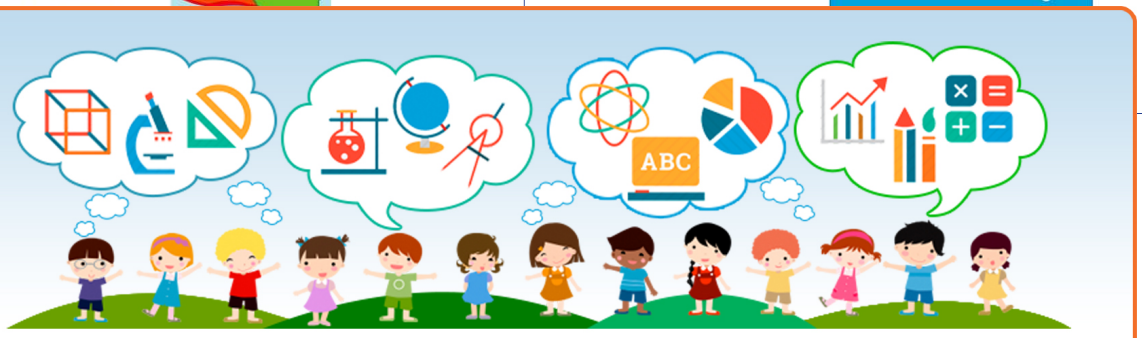
A the Gulf Stream
B
C
D

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



A waveheight
B trough
C wavelength
D wave period

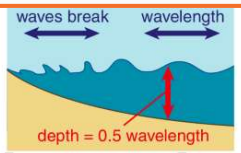
5
A
B
C
D



7
This strong current is called the _____.

A longshore current
B undertow
C tsunami
D breaker zone

8
A two times the wavelength
B four times the wavelength
C ½ the wavelength
D ¼ 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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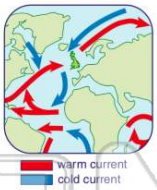
ANSWER KEY

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

b

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

a

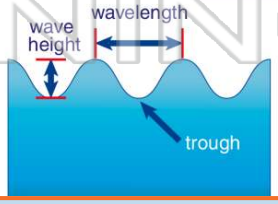
Due to the build up of warm water in the western Pacific Ocean, there is an upwelling of cold water in the eastern Pacific. These **dramatic changes** in surface water temperatures can cause widespread **climatic** changes. Changes of the position of these cold and warm surface waters is called _____.

A the Gulf Stream
B deep water current
C El Niño
D

c

The **distance** between the highest points of two consecutive waves is called the _____.

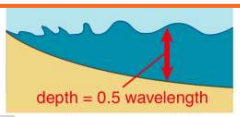
A waveheight
B trough
C wavelength
D wave period



c

A longshore current
B undertow
C tsunami
D breaker zone

B four times the wavelength
C ½ the wavelength
D ¼ the wavelength



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

d

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

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B a fast-moving, destructive rise of sea level near the shore
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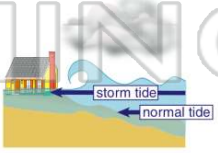
D destructive waves with wave heights over 20 meters



b