Global Climate Patterns Notes

Name _____ Class _____

Atmosphere -

Climate -

Density -

High density things _____ and low density things _____.

Salinity -

Water also gets more _____ the saltier it gets.

Two things happen when materials get heated:

1.

2.

Air pressure -

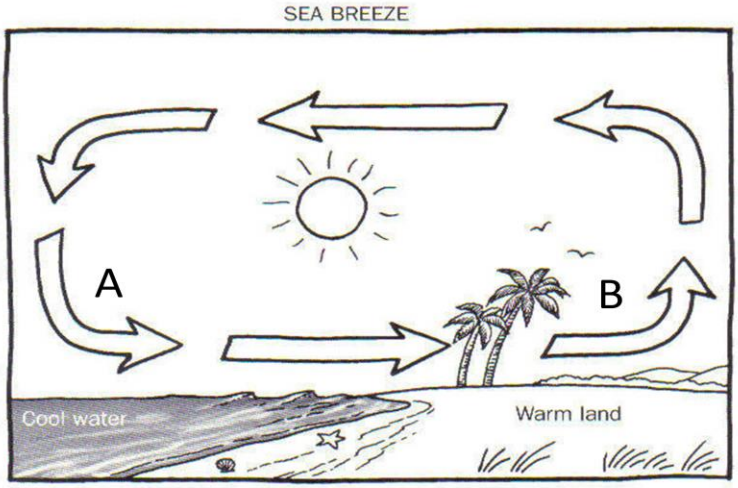
Air always moves from _____ pressure to _____ pressure.

Hot air _____ making low pressure. Cold air _____ making high pressure.

Wind is caused by...

Why doesn't the entire earth get the same amount of sunlight?

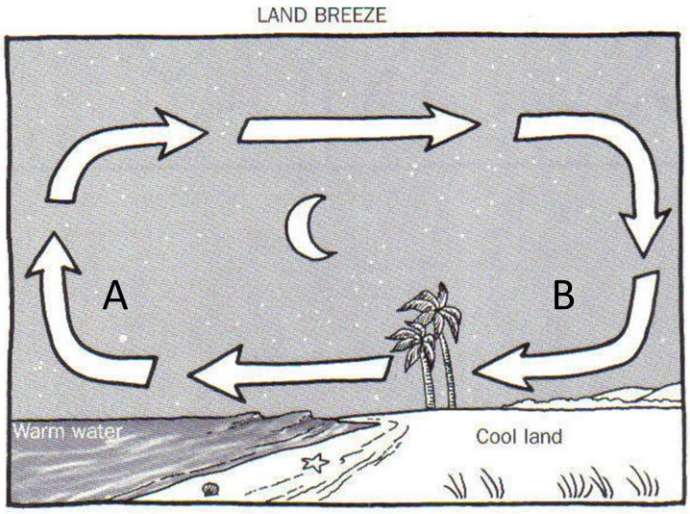
Convection –



A. During the day the temperature of the air over the water is cooler. This causes the air to sink, making what pressure? _____

B. During the day the temperature of the air over the land is warmer. This causes the air to rise, making what pressure? _____

So, during the day, what direction does the wind blow at the surface?
_____



A. At night the temperature of the air over the water is warmer. This causes the air to rise, making what pressure? _____

B. At night the temperature of the air over the land is cooler. This causes the air to sink, making what pressure? _____

So, at night, which direction does the wind blow at the surface?
_____

Convection causes water to move as well. Cold water _____ and warm water _____.

Atmospheric Currents

Atmospheric currents -

Coriolis Effect -

Jet streams -

Ocean Currents

Ocean Currents -

There are two main types of ocean currents:

Surface oceanic currents -

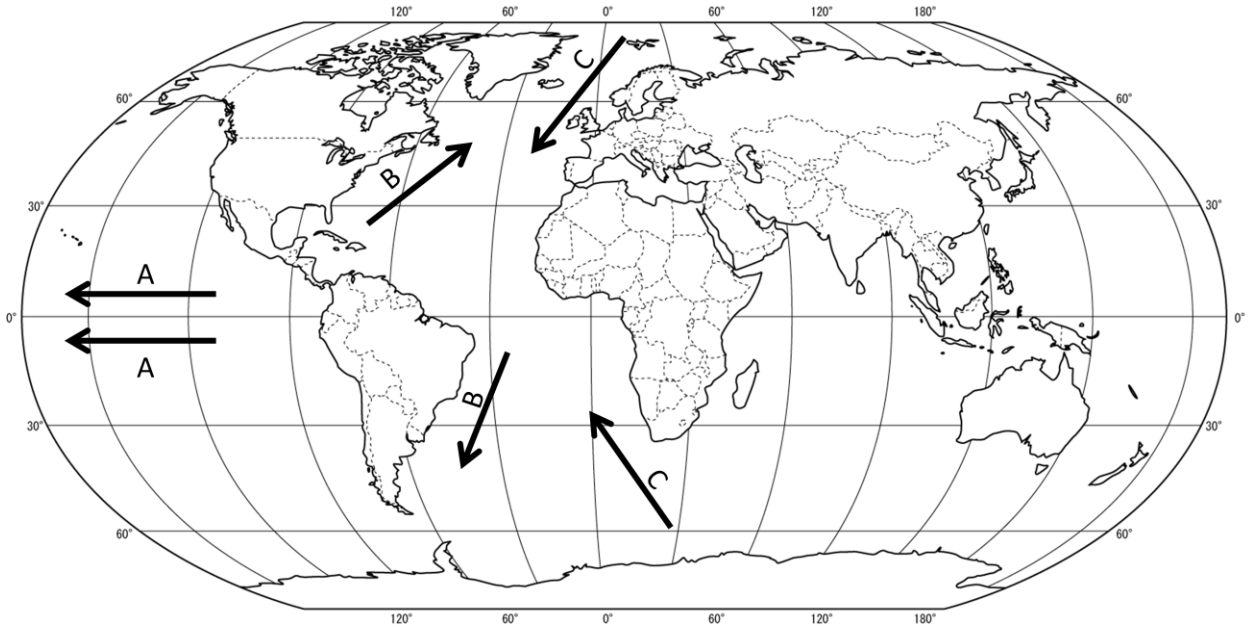
Surface oceanic currents mainly move because of:

Deep water oceanic currents -

Deep water oceanic currents mainly move because of:

How salinity moves currents:

How convection moves currents:



A.

B.

C.

The Gulf Stream -