



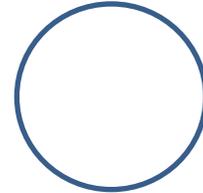
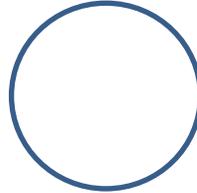
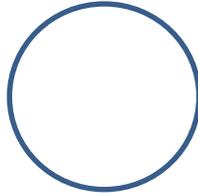
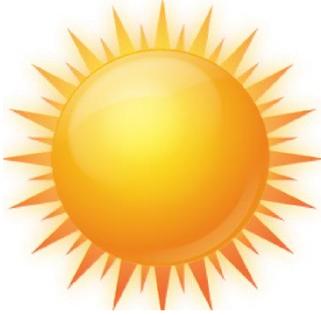
NASHVILLE SCHOOL
SOCIAL STUDIES WORKSHEET – II PARCIAL
6th GRADE – Ms. Rodríguez
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I. What Powers Surface Currents.

The sun heats the air in different ways creating different pressures zones. These different pressures in atmosphere cause winds to form, and winds causes surface currents to form. Therefore, the major source of energy that powers surface currents is the SUN.

- Represent this information in a circle diagram.



II. Currents Events

Movements of ocean water far below the surface are called deep currents. Deep currents are caused by differences in water densities. Density is the amount of matter in a given space or volume. The density in water is affected by salinity and temperature. When ocean water at the surface becomes denser than warm water below it, the denser water sinks. The water moves from the surface to the deep ocean, forming deep currents.

- Represent this information.

III. What are convention currents?

Surface currents and deep currents are linked in the ocean. Together they form convention currents. In the ocean a convention current is a movement of water that results from density differences. Can be vertical, circular, or cyclical. Water from surface currents may become deep currents in areas where density increases. Deep currents water then rises up to the surface in areas of low density. Currents also transfer energy, when surface currents carry energy absorbed from the Sun to colder regions. The warmer water loses energy to its surroundings and cools. As the water cools, become denser and it sinks. Then the cool water rises to the surface. The cool water absorbs energy from the Sun, and the cycle continues.

- Represent this information in the next space.

III Upwelling?

The deep oceanic water contains nutrients, such as iron and nitrate. When the warm surface water is replaced by cold, nutrient-rich water from Deep Ocean is a process called Upwelling. Upwelling is important to ocean life, to support the growth of phytoplankton and zooplankton. These tiny plants and animals are food for other organisms. However, some weather conditions can interrupt this process and reduce the richness of the ocean life.

➤ With the previous information, find the definitions for the following concepts:

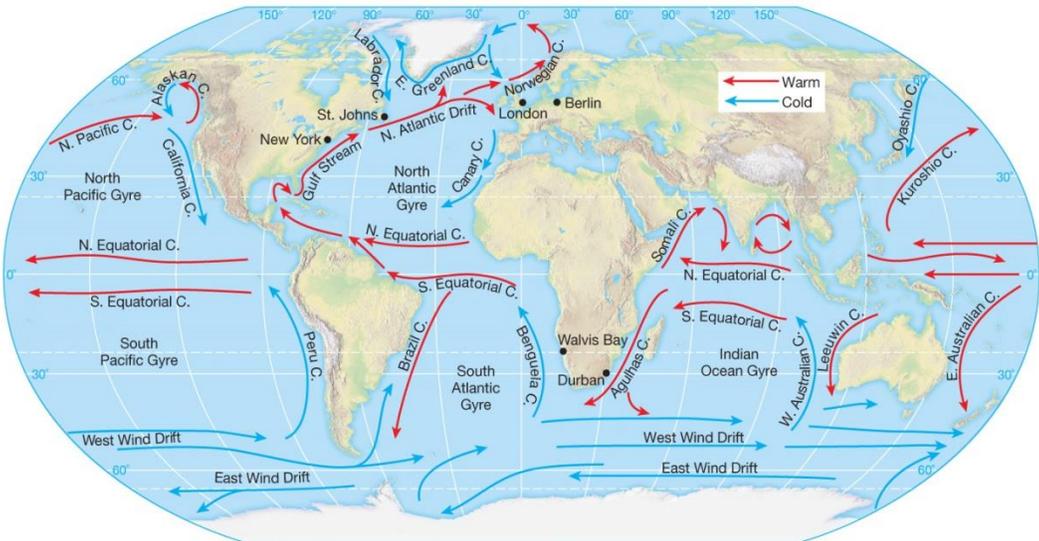
Deep Currents : _____

Convention Currents: _____

Upwelling: _____

III ANALIZE

Observe the following image. It shows the different Global Surface Currents there are. Write a list for them and separate them according to their temperature.



WARM

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

COLD

- _____
- _____
- _____