# Energy Transformations Study Guide

#### Learning Target #1

Describe how oceans affect climates

- a) Describe the salinity of ocean water
- b) Explain the cause and effect relationships between oceans and climate
- c) Identify what causes surface currents
- d) Explain how surface currents affect climate

#### Why is water a slow conductor of heat?

It needs to gain more energy for its temperature to increase

#### Why are our oceans important as a source of heat energy?

- The oceans cover more than 2/3 of the Earth's surface
- · They absorb more sunlight and store more heat.
- Oceans retain heat longer
- · Sun's rays heat up the ocean to the depths of many meters

# Why can ocean water remain within a narrow range of temperatures as opposed to air temperatures?

It has a high heat capacity

#### Why do oceans have a major effect on climate?

They hold a large amount of heat energy

# When you wake up before sunrise to go on a walk on the beach, what conditions would you expect?

The air over the water is hotter than the air over the land

#### What kind of temperatures would you look for if you expected to feel a sea breeze?

The sea temperature would be lower than the land temperature (chart of temperatures will be used on test)

# After a hot, sunny day, the land cools faster than the sea. What is likely to happen after a hot, sunny day on the sea shore?

Cool air from the shore will travel to the sea

#### What is the relationship between heat absorption and heat loss in terms of ocean vs land? Land absorbs and loses heat faster than sea water

# **Energy Transformation Study Guide**

**G** Orfield

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