**Chapter 1 Section 2 Energy Transfer in the Atmosphere**

**Key Ideas**

**I will know what happens to the energy the Earth receives from the sun.**

**I will understand the difference between conduction, convection, and radiation.**

**I will be aqble to explain the water cycle.**

**My second round of vocab words**

**Radiation**

**Conduction**

**Convection**

**Hydrosphere**

**Condensation**

A. Some energy from the Sun is reflected back into space, some is absorbed by the atmosphere,
and some is absorbed by land and water on Earth's surface.

B. \_\_\_\_\_\_\_\_\_\_\_\_—energy that flows from an object with a higher temperature to one with a lower temperature

1. \_\_\_\_\_\_\_\_\_\_\_\_—energy transferred in rays or waves
2. \_\_\_\_\_\_\_\_\_\_\_\_—transfer of energy when molecules bump into each other through contact
3. \_\_\_\_\_\_\_\_\_\_\_\_—transfer of heat by the flow of a material

a. Molecules move closer together, making the air more dense, and air \_\_\_\_\_\_\_\_\_\_\_\_ rises.

b. Cold air \_\_\_\_\_\_\_\_\_\_\_\_, pushing up warm air, which then cools and sinks, pushing up more warm air.

Homework: **Find and describe 3 examples of energy transfer**

**in your home. Write it out on your own sheet of lined notebook paper.**

C. The \_\_\_\_\_\_\_\_\_\_\_\_ cycle—water moves back and forth between Earth's atmosphere and surface

1. Energy from the Sun causes water to \_\_\_\_\_\_\_\_\_\_\_\_ from the **hydrosphere,** and rise as vapor.
2. Water vapor in the atmosphere can cool and return to liquid form through \_\_\_\_\_\_\_\_\_\_\_\_**.**

a. When water vapor condenses, clouds of tiny water \_\_\_\_\_\_\_\_\_\_\_\_ may form.

b. Water droplets collide to form larger \_\_\_\_\_\_\_\_\_\_\_\_

 3. Water drops fall back to Earth as \_\_\_\_\_\_\_\_\_\_\_\_

D. Earth's atmosphere is unique—it holds just the right amount of the Sun's \_\_\_\_\_\_\_\_\_\_\_\_ to support life