**Earth’s Waters**

Water isn’t just water for Earth. We have two types, we have fresh water and salt water. Fresh water is what we rely on to survive, while some plants and animals live in the salt water. Earth consists of only 29% land, the rest is water. Of that water, only 3% is fresh water. Stunningly, 70% of fresh water is in continental glaciers or frozen.

Ground Water Vocabulary:

Ground water-Water held underground

Permeable-substance that liquids can flow through

Impermeable-substance that liquids cannot flow through

Water Table-the top of the region that is saturated, or completely filled with water

Aquifer-an underground layer of permeable rock or sediment that contains water. For an aquifer to form you need three things:

-a layer of permeable material to hold the water

-a neighboring area of impermeable rock to keep the water from draining away

-a source of water to replenish or refill the aquifer

Spring-a flow of water from the ground at a place where the surface of the land dips below the water table

Artesian Well-a well in which water flows to the surface naturally because it is under pressure. In places where impermeable rock dips into an aquifer, the water directly below the rock is pushed to a lower level that the water on either side.

**Water Shortages** Water shortages are a global problem, not just here in Arizona. Northern Africa and the Middle East have a constant problem, not only with drought, but sanitation. A major problem in these regions is because of the lack of water, they cannot grow food themselves so they have to import most of the food. Jordan imports 91%; Israel imports 87%; and Egypt imports 40% of the grains needed.