15 Sea Breeze/Land Breeze Diagram Full Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Period \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_

Wind flows from \_\_\_\_\_\_\_\_\_\_ pressure to \_\_\_\_\_\_\_\_\_ pressure.

Pressure differences occur when earth’s surface is heated \_\_\_\_\_\_\_\_\_\_ by the sun.

Use the animation to fill in/color in air flow & description of what is happening at various times.

Ocean

Land

Land Temp. \_\_\_\_

Ocean Temp. \_\_\_\_

Time: 8 AM

At 8 AM, the land and sea temp. are \_\_\_\_\_\_\_\_. Heat is equal, so no air \_\_\_\_\_\_\_\_\_.

Ocean

Land

Land Temp. \_\_\_\_

Ocean Temp. \_\_\_\_

Time: 12 Noon

**Sea Breeze**

During the day, when the \_\_\_\_\_ comes up. The land gets \_\_\_\_\_\_\_ than the Ocean. The air above the land gets \_\_\_\_ too and is less dense, so it rises. Meanwhile, the air over the ocean is \_\_\_\_\_\_/more dense and falls. The falling dense air creates \_\_\_\_\_ pressure over the ocean & the rising thin air creates \_\_\_\_\_ pressure over the land. A “sea breeze” develops from the \_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_.

Ocean

Land

Land Temp. \_\_\_\_

Ocean Temp. \_\_\_\_

Time: 6 PM

At 6 PM, the land and sea temp. are \_\_\_\_\_\_\_\_. Heat is equal, so no air \_\_\_\_\_\_\_\_\_.

 During the night, when the \_\_\_\_\_\_ is down. The land gets \_\_\_\_\_\_\_ than the Ocean. The air above the land gets \_\_\_\_\_\_\_ too and is more dense, so it sinks. Meanwhile, the air over the ocean is \_\_\_\_\_\_\_\_\_ /less dense and rises. The sinking dense air creates \_\_\_\_\_\_\_ pressure over the \_\_\_\_\_\_ & the rising air creates \_\_\_\_\_\_\_ pressure over the \_\_\_\_\_\_\_\_\_\_. A “land breeze” develops from the \_\_\_\_\_\_\_\_ to the \_\_\_\_\_\_\_\_\_\_.

Ocean

Land

Land Temp. \_\_\_\_

Ocean Temp. \_\_\_\_

Time: 3 AM

**Land Breeze**