**Oceans Guided Notes**

**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**The Salty Sea**

* **The water in earth's oceans is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water.**
* **The amount of dissolved \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in ocean water is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_ water from rivers, precipitation, and melting glaciers \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ocean salinity.**
* **During the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, water \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the ocean, leaving behind dissolved salts.**

 **-This raises \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Salinity varies more at the surface than in deep ocean water. Why? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**What is salinity? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Temperature Layers**

* **There are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layers of the oceans. These layers are**

 **based on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

* **surface**
* **thermocline Draw the ocean levels**
* **deep**
* **SURFACE LAYER**
	+ **Heat from \_\_\_\_\_\_\_\_ warms the ocean water**
	+ **Surface layer is from \_\_\_\_\_\_\_-\_\_\_\_\_\_\_\_ meters deep**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ keep the water in the surface layer well mixed.**
* **THERMOCLINE LAYER**
	+ **Lies below the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer**
	+ **Temperature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sharply with depth**
	+ **\_\_\_\_\_\_\_\_\_\_\_ than the surface**
* **DEEP LAYER**
	+ **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ layer**
	+ **Temperatures are usually \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 5 degrees Celsius**

**What are the 3 temperature layers of the ocean? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Which is the warmest? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Why?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**DESALINATION-the removing of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ from ocean water so that is suitable for drinking. Many countries have desalination plants in which \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, leaving the remaining \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water.**

**OCEAN CURRENTS-stream of \_\_\_\_\_\_\_\_\_\_ flowing in the oceans**

**\*\*think of a running \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the ocean**

1. **types of currents:**
2. **Density current-stream of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that moves \_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ in the ocean depths.**
	* **Differences in density can cause currents to move up and down in the ocean depths**
3. **Surface Current-caused by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Coriolis Effect-bending of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ winds and ocean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ nu Earth’s rotation**