Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

FIND SOMEONE WHO…

|  |  |  |  |
| --- | --- | --- | --- |
| What causes **surface currents**?WIND | On the back of this paper, draw a picture of the moon, Earth, Sun and tides during a **spring tide**.See next page… | Why doesn’t warm water on the surface sink to the bottom and mix?Less dense = stays at the top | What causes **deep currents?**Differences in density |
| Turnover is to lake as \_\_\_\_\_\_\_\_&\_\_\_\_\_\_\_\_\_\_\_ are to ocean.Upwelling and downwelling | On the back of this paper, draw a picture of the moon, Earth, Sun and tides during a **neap tide**.See next page… | Density of salt water is (**>**, <, =) density of fresh water.Greater than.More salt = more dense!More salt = easier for things to float also! | On the back, label the ocean floor map.See next page… |
| On the back of this paper, draw a picture of a wave and label the **crest, wave height, wavelength, & trough**See next page… | Under which types of moons do neap tides occur? Spring tides?Neap = 1st and 3rd quarter moonsSpring = new and full moons | Which type of tide causes more extreme high and low tides?Spring  | What is the primary way in which waves form?WIND |
| What are 2 obstacles to ocean exploration?Pressure, depth, darkness, cold (temperature)… | List the 3 temperature zones.EpipelagicMesopelagicBathypelagic | What happens to water particles as a wave passes through?Water particles stay in the same place – they move up and down in little circles | T/F Waves transport energy, not waterTRUE! Waves only transport energy…NOT water. |

**Spring and Neap tide diagram:**

**Wave drawing:**



**Ocean floor map:**

Use the following terms:

**Sea mounts Mid-ocean ridge Ocean trench**

**Continental Shelf Continental Slope Volcanic Islands**

**(ON DIAGRAM….)**

1. **Continental shelf**
2. **Continental slope**
3. **Ocean trench**
4. **Mid-ocean ridge**
5. **Seamounts**
6. **Volcanic islands**