# 14A

3) What is the main cause of the twice-daily tides around the world?

8) All coastlines experience a high and a low tide a little more than twelve hours apart – T or F and why?

# 14B

1. What two main factors control the speed and direction of the major ocean surface currents?
2. Why does the Ekman spiral happen? Which way does it twist in the North Atlantic?

4- How do ocean currents affect global weather patterns?

6) Why are downwelling currents important to marine life and the abyssal zone of the ocean basins?

9 – Name 3 conditions that allow gravity to produce subsurface currents.

10) What kind of density current is caused by a muddy, rapidly flowing mixture of sediment and water? What events on land are similar to this?

# 14C

5- What causes most surface waves? What other kinds of things could cause a large surface wave?

6) What two kinds of currents can occur as ocean wave come ashore?

# Chapter Review Question

2) If the moon’s gravity causes the tidal bulge on the side of the earth facing the moon, what causes the tidal bulge on the opposite side of the earth?

Vocab 14: bring in flashcards or type up

Spring tides

Neap tides

lunar tides

solar tides

surface currents

Coriolis Effect

subsurface currents

Ekman spiral

Upwelling

Downwelling

Density currents

Thermohaline currents

Turbidity current

Wave crest & trough

Wave speed, period, base

Wavelength

Fetch

Breaker

Longshore current

Rip current

Spit

Tombolo

Barrier island