Guided Notes about Ocean Movements (15.3)

1. A wave is a ________________. An ocean wave is generated by ____________ flowing over the water’s surface.

2. The highest point in a wave is the ____________, and the lowest is the ____________. The vertical distance from crest to trough is the ________________.

3. Wavelength is the ________________. Wave ______________ increases with wavelength.

4. The 3 factors that determine wave height are:

5. Tides are a periodic rise and fall of ________________. The daily cycle of high and low tides takes ________________.

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6. Surface currents affect the upper few ________________ of the ocean. They follow predictable patterns because they are driven by ________________.

7. Earth’s continents deflect ocean currents to the north and south so that ________________, called gyres, develop. The gyres of the northern hemisphere circulate in a ________________ direction because of the ________________.

8. Define and state the importance of upwelling: