

Science 8

TOPIC 6: Buoyancy (p59- 70)

ASSIGNMENT due: Wednesday October 29th

1. In your own words what is buoyancy?
2. In scientific words what is buoyancy?
3. Why is it that objects that are very heavy such as oil platforms can float in water (hint: you might want to look into “average density”).
4. What does wearing a lifejacket do to the buoyancy of a person?
5. What is Archimedes’ principle?
6. If an object displaces 453 ml of water when it is lowered into it what is it’s volume?
7. What is a hydrometer used to measure?
8. An strange chunk of stuff displaces 24.5 ml of water when it is placed in a beaker and weighs 218 g. Using page 52, determine what the chunk of stuff is.
9. Explain why when you stand in water you sink but when you stand in a boat you don’t. Use the words displace, water, weight, buoyancy.

****BONUS**** A rowing boat with a person in it displaces 215 litres of sea water what is the mass of the person and rowing boat?