

Name: _____

Period: _____

Date: _____

Define the terms or answer the following questions regarding buoyancy.

1. Archimedes' Law –

2. Center of gravity -

3. Center of buoyancy -

4. Ballast tanks -

5. When will a ship that was designed to float, sink?

6. A surfaced submarine operates under the same buoyancy principles as a ship.

6.a. How much of a submarine is typically submerged when on the surface?

6.b. How does a surfaced submarine submerge or “dive?”

6.c. How does a submerged submarine maintain any particular depth under water?

6.d. When a submarine is ready to return to the surface, how does it do so?

7. What can a ship do to improve its stability and make it more stable in rough weather and make it less likely to capsize?