Forces in Fluids REVIEW Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part A: Crossword Terms



Across

2. The upward force that fluids exert on all matter

4. An irregular flow of fluids

5. Any material that can flow and takes the shape of its container

7. The buoyant force of an object is equal to the weight of the fluid displaced by the object

8. Upward force on an object that moves in a fluid

9. Pressure caused by the weight of the atmosphere

10. Fluid pressure decreases as the speed of the fluid increases

11. Mass per unit volume

Down

1. Change in pressure in an enclosed fluid is transmitted equally to all parts of the fluid

3. Amount of force exerted on a given area

4. The forward force produced by the engine

6. Force that opposes or restricts motion in a fluid

Part B: Fill in the blank

1. What happens to the pressure as you go higher in the atmosphere?
2. What happens to the pressure as you go deeper in the water?
3. What 2 states of matter are fluids?
4. What is the equation for pressure?
5. Pressure is measured in unit called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
6. Find the pressure exerted by a 3000 N crate that has an area of 2 m2.
7. Find the weight of a rock that has an area of 10 m2 and that exerts a pressure of 250 Pa.
8. Why are our bodies not crushed by the atmospheric pressure?
9. Fluid always move from areas of \_\_\_\_\_\_\_\_ pressure to areas of \_\_\_\_\_\_\_\_ pressure.
10. What is the relationship between pressure and fluid speed?
11. Name 3 examples of fluids going from high pressure to low pressure
12.
13.
14.
15. Where is the most pressure found: top, middle, or bottom of an object?
16. What are the roles of lift, drag, and wing size in flight?
17. Lift-

1. Drag –
2. Wing size –
3. When you squeeze a balloon, where is the pressure inside the balloon increased the most? Explain.