1. What is the relationship between force, pressure, and area.

2. What is the pressure of an area of 10m2 when the force is 100N?

3. Explain why a helium balloon will float in our atmosphere.

4. What is the SI unit of pressure?

5. 1 Pa =

6. Explain why a person wearing snowshoes will not sink into the snow.

7. Something that flows easily is a:

8. List 2 different fluids

10. Mass divided by volume equals

11A. Explain the relationship between the density of an object and the fluid in which it **floats**.

11B. Explain the relationship between the density of an object and the fluid in which it **sinks**.

11C. Explain the relationship between the density of an object and the fluid in which it **hovers**.

12. In the atmosphere, where is air pressure the greatest?

13. In the ocean, where is water pressure the greatest?

14. What does a hydraulic system do?

15. Draw & label Archimedes’s Principle so it is understandable.

16. Draw & label Bernoulli’s Principle so it is understandable.

17. Draw & label Pascal’s Principle so it is understandable.