

**Skills Worksheet****Directed Reading A****Section: Fluids and Pressure**

1. Any material that can flow and takes the shape of its container is called

a(n) \_\_\_\_\_.

2. Name two types of fluids.

\_\_\_\_\_

\_\_\_\_\_

3. What can particles in a fluid do?

\_\_\_\_\_

\_\_\_\_\_

**FLUIDS EXERT PRESSURE**

4. What happens when you pump up a bicycle tire?

\_\_\_\_\_

\_\_\_\_\_

5. The amount of force exerted per unit area of a surface is

called \_\_\_\_\_.

6. Force divided by area equals \_\_\_\_\_.

7. The SI unit of pressure is the \_\_\_\_\_.

8. The force of one newton exerted over an area of one square meter

is one \_\_\_\_\_.

9. Why does a soap bubble get rounder instead of longer as you blow into it?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Directed Reading A *continued*****ATMOSPHERIC PRESSURE**

Match the correct description with the correct term. Write the letter in the space provided.

\_\_\_\_\_ 10. pressure caused by the weight of the atmosphere      a. 10  
 \_\_\_\_\_ 11. percentage of gases found within 10 km of Earth's surface      b. atmospheric pressure  
 \_\_\_\_\_ 12. force that holds the atmosphere in place      c. 80  
 \_\_\_\_\_ 13. number of newtons pressing on every square centimeter of your body      d. gravity

14. As you travel "deeper" into the atmosphere, how is atmospheric pressure affected?

---



---



---

**Number each location listed from 1 to 5 in order of lowest to highest pressure.**

\_\_\_\_\_ 15. Mount Everest's peak  
 \_\_\_\_\_ 16. La Paz, Bolivia  
 \_\_\_\_\_ 17. airplane at 12,000 m  
 \_\_\_\_\_ 18. beach at sea level  
 \_\_\_\_\_ 19. space shuttle at 150,000 m above sea level  
 20. Why do your ears "pop" when you take off in an airplane?

---



---

**WATER PRESSURE**

21. Water pressure increases as  
 a. gravity decreases.      c. depth increases.  
 b. air pressure decreases.      d. particles collide.