

## 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. |