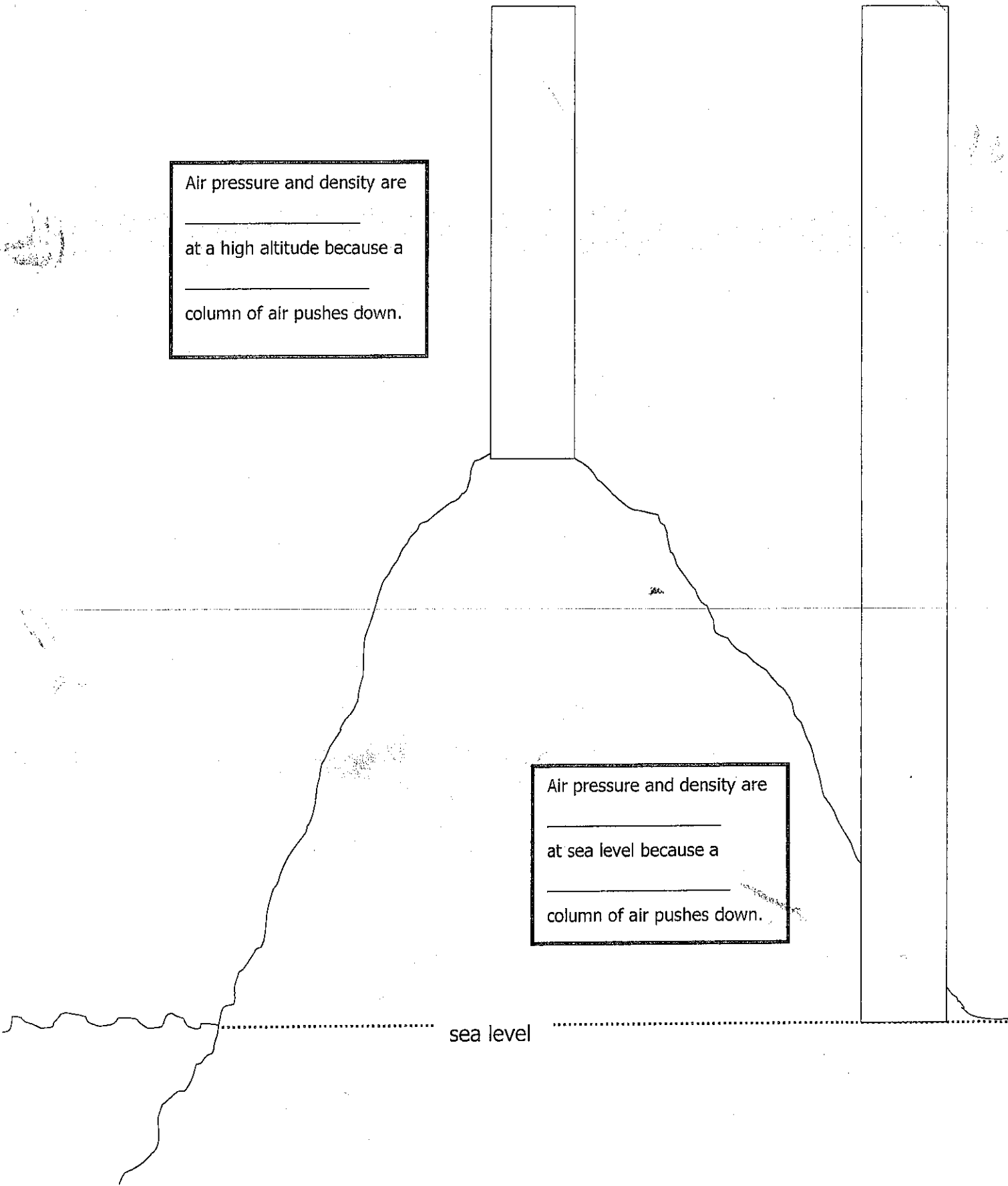


# Air Pressure and Density in the Atmosphere

Air pressure and density are \_\_\_\_\_  
at a high altitude because a \_\_\_\_\_  
column of air pushes down.

Air pressure and density are \_\_\_\_\_  
at sea level because a \_\_\_\_\_  
column of air pushes down.

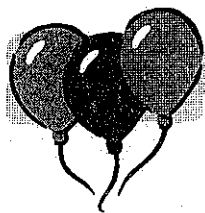
sea level



# Air Pressure – Section 2.1, pp.43-44

Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

1. Density is the mass of a substance divided by its volume. List these items from least to greatest density.



2. When an air molecule bounces off an object, it \_\_\_\_\_ on the object.  
3. Why does air pressure push in all directions?

4. How does the movement of air molecules cause air pressure?

5. What happens to air pressure as you increase altitude in the atmosphere? Why does this happen?

6. Which area in the picture should have the lowest air pressure? Explain why?



**A** – Elevation 10,000 ft

**B** – Elevation 100 ft

7. How is air density related to air pressure?