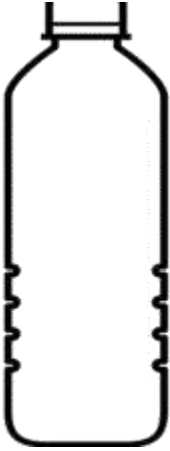




3. Using the diagrams below, draw small circles to illustrate air molecules OUTSIDE of the water bottle and INSIDE of the water bottle:
- A. Before the hot water was added
  - B. After the hot water was added and emptied. Use the diagram below only as a guide. Draw your own outline of the bottle to show if it is the same or different.
  - C. After the sealed bottle was placed in the ice water bath. Use the diagram below only as a guide. Draw your own outline of the bottle to show if it is the same or different.

A.



B.



C.



**Conclusion:** Based on your observations during the experiment, why did the bottle behave as it did when it was placed in the ice water bath?

**EXTENSION:** What could you do to make the results of your experiment even more dramatic? Try your idea. Explain what you did and record your results.