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| **Science 8****Ball & Ring**  | **Name:****Date:Block:** |

When heat is added to a material, the volume increases. This is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

When heat is removed from a material, the volume decreases. This is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Using these concepts, answer the following questions:

* What happens to the kinetic energy of the molecules in the ball when it is heated?
* Why doesn’t the ball fit in the ring after it has been heated? In your explanation, include the words: volume, space, molecules.
* List two ways that you could get the ball to fit back into the ring:
1.

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