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

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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:



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