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| **Science 8**  **COOL CONTRACTIONS** | **Name:**  **Date:**  **Block:** |

**Objective:**

**Materials:**

* Water
* Ice Bath
* Hot plate
* Erlenmeyer flask
* Balloon
* Gloves

**Procedure:**

1. Create an ice bath.
2. Turn on hot plate.
3. Pour hot water in the flask.
4. Pour the hot water out the flask leaving about 10 mL at the bottom.
5. Carefully put a balloon over the mouth of the flask.
6. Place the flask on a **hot plate**. Record observations below.
7. Put the flask in the **ice water bath.** Record observations below.

**Observations:**

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| Flask on hotplate: |
| Flask in ice bath: |

**Analysis**

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| --- | --- |
| When the flask is on the **hot plate…** | When the flask is in the **ice water bath…** |
| * Particles are moving… * The space between the particles are… | * Particles are moving… * The space between the particles are… |

**Conclusion:**

* Predict what would occur if the flask were placed back on the hot plate.
* Describe particle movement when…
  + Heat is added:
  + Heat is removed: