**Experiment: Lights Out**

**Problem:** How does the amount of oxygen in the air affect combustion (burning)?

**Materials:**

* One tea candle
* Three glass jars of different sizes
* Stop watch
* Matches

**Procedure:**

1. Predict how long the candle will burn in each jar.
2. Light the candle. Place smallest jar over the candle and time how long the flame burns. Record.
3. Light the candle a second time and place the next largest jar over the candle. Observe how long the flame burns. Record.
4. Repeat this procedure with the largest jar. Record.
5. Discuss: How does the amount of oxygen in the air affect combustion (burning)?

|  |  |  |
| --- | --- | --- |
| **Size of Jar** | **Prediction** | **Observation** |
| Small |  |  |
| Medium |  |  |
| Large |  |  |

**Inference:** Why did the candles burn at different rates?

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**Controlled variables:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Manipulated variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Responding variable:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_