Name: Block: Date:

Partner’s Name:

**Observations**, *before burning*:

**Observations**, *during burning*:

**Observations**, *after extinguishing*:

Sketch of Burning Candle

(label colors, phases, etc.)

**Questions:**

1.

2.

3.

**Proposed Experiment:**

**Experiment 1:** Will the gas released from the wick when a candle is extinguished burn?

Prediction:

Observations:

How do these results help determine whether the wax or the wick is the fuel?

**Experiment 2:** Will the candle still burn if a piece of aluminum foil is placed over the wick before the candle is lit?

Prediction:

Observations:

How do these results help determine whether the wax or the wick is the fuel?

**Experiment 3:** What happens to the mass of a candle as it burns?

Prediction:

Measurements and Results:

Mass of candle before burning:

Mass of candle after burning:

The mass (increased, decreased, stayed the same).

How do these results help determine whether the wax or the wick is the fuel?

**Experiment 4:** What other product, in addition to carbon dioxide gas, is produced by burning a candle?

Prediction:

Observations:

How do these results help determine the identity of the additional product?

**Experiment 5:** In addition to the wax or wick, what other reactant is required for the candle to burn?

Experiment Design: (include a sketch)

Prediction:

Observations:

How do these results help determine the identity of the additional reactant?