



CO₂ Fire Extinguisher Experiment Sheet

Scientist: _____

Date: _____

Problem:

Can an invisible matter cause an energy transformation?

Hypothesis:

Ms. Niru: I predict that chemical energy will extinguish the fire.

My Hypothesis:

Materials:

- 2 tablespoons of baking soda
- 50 ml of vinegar
- Graduated cylinder
- Small clear container with spout
- Matches
- Candles
- Cookie sheets
- Stopwatch

Procedure: ([link to science experiment](#))

1. Place the clear container on the cookie sheet and place 2 tablespoons of baking soda into it.
2. Add 50 ml of vinegar into the container, it is okay if the **mixture** overflows.
3. Let the **reaction** and the foaming calm down.
4. With the help of a teacher, light the candles.
5. Hold the container close to and above the flame, and very slowly pour the **gas** onto the flame. Be sure NOT to pour the **liquid**.



Fill in the information.

Label your drawing. Use science vocabulary in your description.

<p>Draw what you saw:</p>	<p>Describe what you saw:</p>
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Describe at least two forms of energy that were present in the experiment.



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Describe how an invisible matter was created.

Describe how the gas caused an energy transformation.

Was your hypothesis correct? How do you know?

Extension:

What would you change to make the experiment different? What makes you say that?
