

# Summative Scientific Method

By: Bianca

QUESTION	BACKGROUND KNOWLEGE	HYPOTHESIS	EQUIPMENT/ MATERIALS	VARIABLES
How long does it takes for a small candle to die out in transparent glass?	In my recent research by reading and watching television I have notice that if I cover a candle that has fire in it ,it will die out if it's covered with glass.	If the glass is thicker than the fire In candle will die out faster.	Matches [ Kevin ]  30cm 14cm 4cm transparent Glass [ Bianca ]  stop watch [ from library]  19 cm Candles [Nicole ] [They are cut to make 27cm 12cm and 3 cm candle sticks]	<b>INDEPENDENT</b>  Time of the candle to die out.
				<b>CONTROLLED</b>  Candle, match, stop watch.
				<b>DEPENDENT</b>  the size and thickness of the glass.

Procedure	1. Get the materials and equipment ready. 2. Light one of the biggest candle first. 3. Cover the biggest candle with the biggest glass. 4. Record the time in stopwatch for the fire to die out. 5. Do the same steps to the other candles. 6. Make a conclusion about the experiment.	
Data	Glasses	Time
	❖ Small ❖ Medium ❖ Tall	❖ 8 second ❖ 17 second ❖ 13 second
Result	So the first one had 8 second The second experiment had 17 second The Last experiment used 13 second	
Conclusion	So my conclusion is that that the candle will die out faster if in a more closed up space that means my hypothesis about thicker glass for the candle was wrong because it may have a bigger space then the ones with a smaller space.	



# Energy types

- ✚ Potential
- ✚ Kinetic
- ✚ Thermal
- ✚ Chemical

## Multiple Energy transformation:



1<sup>st</sup> the candle has chemicals or is still solid 😊

2<sup>nd</sup> then we light the candle up turning it into thermal or heat energy.

3<sup>rd</sup> then the candle dries up if the fire is gone that makes it turn into thermal energy.

We use chemical and thermal energy and kinetic energy to make this experiment.

Explains how the applied energy and/ or forces in the experiment are used to support people's lives

It supports daily lives of humans using heat and glass can be used for a light bulb or it can be used in a fire emergency. If you are stranded on a island you may use this technic to fade out the fire if it is near to burning you.

### Self-management

Nice motor skills when I lift the fire lighted candle.

Alert because I am aware of my personal space.

Time management because our experiment happens on time.

