



Log book
Science fair

80 Pages
27.6 cm x 21.2 cm

Ruled 7 mm • Ligné 7 mm

EXERCISE BOOK
CAHIER D'EXERCICES

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SUBJECT/SUJET _____

Ideas for projects

-Candles

-

-invisible ink

-toothpaste cleanse the best

-how dirty is your toilet?

-how tall can a sunflower grow

-what does fluoride in water do

-wombats.

-what ink lasts the

Which Project We Pick!!!!!!

CANDLES!

how fast do they burn?

which ones last longer?

which candle type burns the fastest

Types of candles we will use

- Soy

- beeswax ✓

- Paraffin ✓

- LED candles

Hypothesis

We think that paraffin will burn faster than beeswax

because beeswax needs to be strong to protect the hive

Beeswax is stronger than any other candle.

Beeswax makes the bee hive strong and

sturdy

Procedure

we typed this up

0	0	0	0	0
5	1	11	13	0.7
10	2	18	17	0.5
15	3	22	21	0.4
20	4	27	25	0.3
25	5	32	30	0.2

we also found that the shape of the snout is related to the size of the snout.

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Note: the shape of the snout is related to the size of the snout.

Results

cm melted

Time (min) Minutes	Paraffin			Beeswax			
	1	2	3	1	2	3	
0	0	0	0	0	0	0	
5	1	1.1	1.2	0.7	0.7	0.9	
10	1.8	1.8	1.8	1	1	1.1	
15	2.5	2.2	2.1	1.5	1.2	1.4	
20	3	3	2.8	1.8	1.7	1.7	
25	3.7	3.4	3.3	2.2	2	2	
weight at start	9.3g	9.3g	9.3g	11.8g	11.8g	11.8g	soy candle 322.3g
weight at end	6.6g	6.9g	6.4g	9.5g	9.8g	9.7g	320.7g
weight lost	2.7g	2.4g	2.9g	2.3g	2g	2.1g	1.6g

Note: soy candle is not part of the experiment because the weight shows that the shape of candle changes the amount melted.

Research Questions



- National candle association 2,1
- wikipedia
- ai overview
- "when did humans start to use candles over 5,000 years ago Ancient Egyptians started to use candles

What were early candles like?

They were like torches, rushlights and they use animal fat to make candles

What are the different types of candles website

- Northwood candle and craft
- paraffin candles
- soy candles
- coconut candles
- beeswax candles
- gel candles

When candles burn do they release chemicals

Yes when candle burn they release various chemicals these are the chemicals

- benzene, toluene formaldehyde acetaldehyde and particulate matter (soot)

Research
Answers

How long was the longest candle???

Variables

Independent variable:

Type of wax - paraffin or beeswax

Dependant variables:

Amount of candle that is melted

Controlled variables

We did it inside so that the wind could not blow them out. We lit them at the same time.

Source of error

We stoped the stop wacth too early

Application

our application is that if there is a power outage or you're eating dinner you can use a beeswax candle because they last longer.