

Science Lab



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9. Invisible ink

Topic: Optical illusions and heat

Objective: Student will learn what an optical illusion is and describe what heat can do.

Vocabulary: optical, illusion, heat, dry

Materials:

- 1 lemon
- 1 paint brush / eraser (of a pencil)/ toothpick
- White paper
- 1 small candle / lighter (You can also use a clothing iron)
- A cup

Development:

- **Read and look at the pictures.**

Step 1. Squeeze the lemon juice in the glass.

Step 2. With the brush, take a little lemon juice and write the message on the paper.

Step 3. Let the message dry - once completely dry, check there is nothing written and you can give it over a friend. The friend that receives the message uses a candle lit or a lighter to heat the paper with the message – pass the paper over the candle without touching the fire and observe.

Step 4. Explain how the message starts to appear.

Step 1.



Step 2.



Step 3.



Step 4.



Tell us...

Look, read and write the words.

1. If things are like this, you cannot see them.
2. You use it to paint.
3. It is the opposite of cold.
4. They are wax-bars that can be lit.
5. This is a type of writing people do and send.
6. Notebooks contain these.



hot



a paint brush



paper sheets



invisible



candles



a letter



Glue a picture of your project finished!

Invisible ink

Glue your
picture here
:)

1. What was your favourite part of the project? _____

2. What, exactly, did you like the most?

3. Extra notes on what you observed during the project. _____

4. Can you see or apply the information from the project in real life? YES / NO

Explain: _____

5. Was it easy to get the materials for the project? YES / NO

Explain: _____

