

Invisible Ink

Goal: Show students how you can use science to send secret messages to others.

Materials -

- 1 tablespoon lemon juice
- ¼ cup of water
- Cotton Swabs
- Something to use to write with (toothpick, q-tip, paintbrush, etc)
- Grape Juice (optional)

Procedure -

1. Soak your writing utensil (cotton swab, toothpick, q-tip, paintbrush, etc.) in the lemon juice
2. Write your message or draw your picture however you please
3. Wait for the paper to be completely dry, then hold your paper over a light or heat source to uncover your message!

☆ Explanation: Lemon juice contains carbon compounds which remain virtually colorless at room temperature. By using heat, it is possible to break down those compounds and release the carbon which is what allows the substance to start turning light or dark brown.