

**January:
WEEK FOUR**



Secret Agent Day

THE AGENDA:

Discussion: What would it be like to be a spy or secret agent? What would your day look like? Would you get to travel a lot? What are the good and bad things about being a Secret Agent? Do you think Spies/Secret Agents get to spend lots of time with their families? What skills do you think a good Secret Agent should have? What job opportunities are actually available in this field?

- ◇ Look up organizations like the FBI or Canadian Security Intelligence Service to see what types of jobs are available and what skills are required.

FBI Website: www.fbi.gov

CSIS Website: www.csis-scrs.gc.ca/

- ◇ Learn about what makes fingerprints special and fingerprint each other. (Identify your fingerprint types on www.virtualsciencefair.org/2004/fren4j0/public_html/fingerprint_patterns.htm)
- ◇ Construct mini crime scenes and solve the crime by decoding secret messages and collecting fingerprints with baby powder and tape. Fingerprint any suspects to see who committed the crime.

How to “Lift” a Fingerprint:

MATERIALS:

Baby powder or cocoa
Clear scotch tape
A paintbrush
White or black paper (the opposite colour as the powder you are using)

PROCEDURE:

- Rub your fingers on your face to make them oily. Press them carefully onto a clean and flat surface like a table or a drinking glass. Sprinkle the powder lightly over the print.
- Brush off the excess powder gently with the paintbrush. You will be able to see your fingerprint.
- Place the tape over each fingerprint and gently lift it off. The pattern will be transferred to the tape.
- Stick the tape to a piece of paper.
- Identify your fingerprint.
- Take turns fingerprinting each other.
- ♦ You can also fingerprint each other using ink pads or felts. Be careful you don't get ink on your clothes or the walls!

Invisible Ink Messages:

Lemon juice is acidic and weakens paper. When paper is heated, the remaining acid turns the writing brown before discoloring the paper. Here's How:

Squeeze lemons to obtain their juice or obtain bottled lemon juice.

Use the juice as 'ink' by applying it to a stick or paintbrush and writing on paper.

Allow the paper to dry.

When you are ready to read your invisible message, hold the paper up to sunlight, a lightbulb (recommended), or other heat source.

The heat will cause the writing to darken to a pale brown, so your secret message can now be read!