

**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](http://www.fbi.gov)

**CSIS Website:** [www.csis-scrs.gc.ca/](http://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](http://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!