



SLEUTH SCIENCE

Create secret messages and investigate. Become a sleuth with these mysterious activities.

This week's activities: Invisible Ink – Fingerprint Dusting

Invisible Ink

Suggested Materials:

- 2 tbsp baking soda
- ½ cup water
- Bowl
- Paper
- Cotton swab (or paint brush)
- Grape juice (or 1 tsp turmeric and ½ cup water stirred together)

Directions:

- 1. Stir baking soda into water in your bowl
- 2. Using a cotton swap, write a message on your paper.
- 3. When dry, paint on some grape juice with a paint brush. Did your message appear?

Fingerprint Dusting

Suggested Materials:

- Flour (or cornstarch)
- Cocoa powder
- Black construction paper
- White paper
- Glass
- Small bowl
- Spoon
- Paintbrush
- Tape (packing tape or clear tape)

Examine Fingerprints Using Flour

- 1. Place a spoonful of flour into a bowl.
- 2. Rub hands together then place a finger in the bowl to cover with flour. Gently shake off excess flour.
- 3. Press finger onto black paper and examine the swirls of your fingerprint.



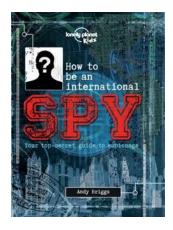


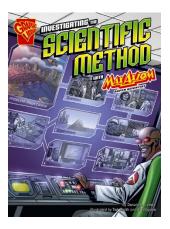
Examine the Fingerprints Using Cocoa Powder

- 1. Place a spoonful of cocoa powder in a bowl.
- 2. Press you finger or thumb onto a glass (to leave a fingerprint).
- 3. Dip your paintbrush into the cocoa powder and very gently brush the fingerprint on the glass. Gently blow or shake off excess powder.
- 4. Holding a piece of tape carefully, press it on to the fingerprint (without letting go of the tape entirely.
- 5. Place the tape onto a white piece of paper and examine.

Links to eResources:

Check out our <u>eBooks</u> on these topics:









Spy | Investigation | Mystery

Watch how Joe and Jack solve the mystery of the missing socks in Episode 12 Season 1 of *Joe and Jack* on KanopyKids.

Read *Poppy & Sam and the Leaf Thief* on <u>TumbleBooks</u>. You can also find the adventures of *Tank and Fizz*, monster detectives, on <u>Tumblebooks</u>.

You can get a library card at hpl.ca/online-register.

If you would like to share one or all your creations, please take a picture and post it to social media using the hashtag, #HPLmakesomething.



