

Fingerprints

What You Need

- pencil
- paper
- clear tape
- at least one friend
- magnifying lens (optional)



Science Scoop

What makes a fingerprint? The skin on your fingertip has a **pattern** of ridges on it. **Sweat and oil** get trapped in the ridges and make a sticky film. When you touch something, the **sticky film** gets left behind and makes a fingerprint. Everyone has **ridges** on the tips of their fingers but no two fingerprints are exactly alike. Scientists **compare** fingerprints and group them according to the **similar ridge patterns** they find. Most people's fingerprints look like a **whorl**, **loop**, or **arch**. What does yours look like?

No two fingerprints are exactly alike. But how is each one unique? Here's a way to find out!

- In order to see your **fingerprint**, you need to make a **print** of it. Take a pencil and **scribble** on a piece of paper until you have a **big black mark**. Then firmly press your index finger (the one next to your thumb) in the mark, and rock it gently side to side.
- Now get some clear **tape**. Put a piece of it over your finger, **press**down (don't rub!), and pull the tape off. Then attach the tape to the fingerprint chart. Look at it closely. What type of fingerprint do you have? A whorl, arch, loop, or something else? Write it on the chart.







whorl loop

arch

3 Collect your friends' fingerprints and attach them to the chart.

How many kids have loops, whorls, or arches? What was the most frequent type of fingerprint among you and your friends? Visit ZOOM online at pbskids.org/zoom/activities/sci/fingerprints/ to enter your results and see how they compare to ZOOMers across the nation!



Keep experimenting with fingerprints. Are the prints on all of your fingers similar?

Do your toes have toe prints? How could you lift a fingerprint off an object?

Try it out and send your results to ZOOM at pbskids.org/zoom.

Sent in by Emily of Wilbraham, MA

Chart Your Fingerprints

Attach each fingerprint to the chart and fill in whether it's a loop, whorl, or arch!





whorl



loop



arch

Fingerprint Chart

Name	Fingerprint	Type of fingerprint (loop, whorl, arch)



Send an e-mail: pbskids.org/zoom/sendit

Then instantly print out a copy of ZOOMerang—a newsletter filled with cast trivia and lots of fun ZOOM activities.



Or, send a letter:

ZOOM Box 350 Boston, MA 02134

Don't forget to include your name and return address so we can send you a copy of ZOOMerang.







