

RESEARCH NOTEBOOK



CENTRE
DES
SCIENCES
MONTRÉAL

Your Mission

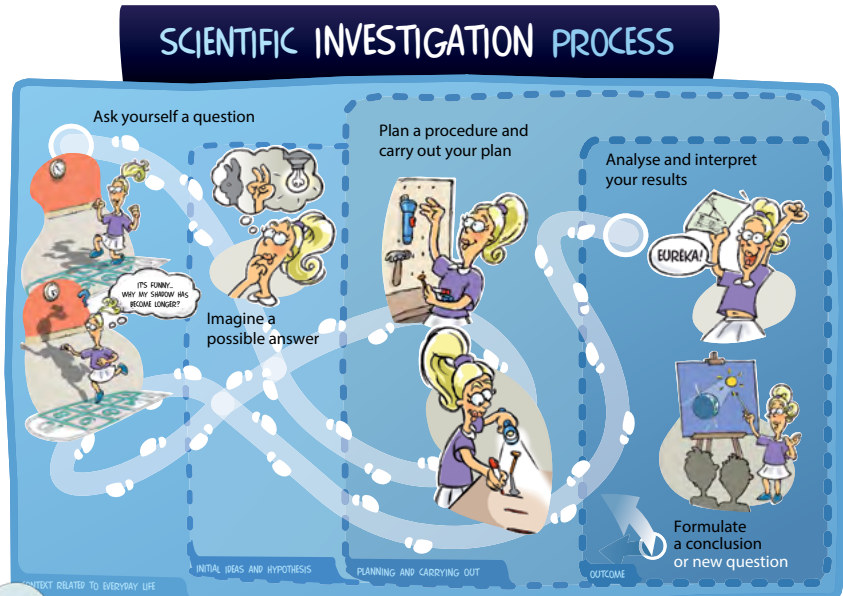
At the Science Centre, we believe that your grandmother and grandfather use the scientific investigation process and the technological design process in their everyday life. Are you surprised to hear that? Here's your challenge: Try to find an example of your grandparent using either the technological design process or the scientific investigation process.

Scientist or Technologist?

Maybe you're wondering what these processes are.

The **scientific investigation process** is what your grandparents use when they are trying to **understand the world around them**.

For example, wondering what type of nuts squirrels prefer or how to drive in order to reduce fuel consumption.

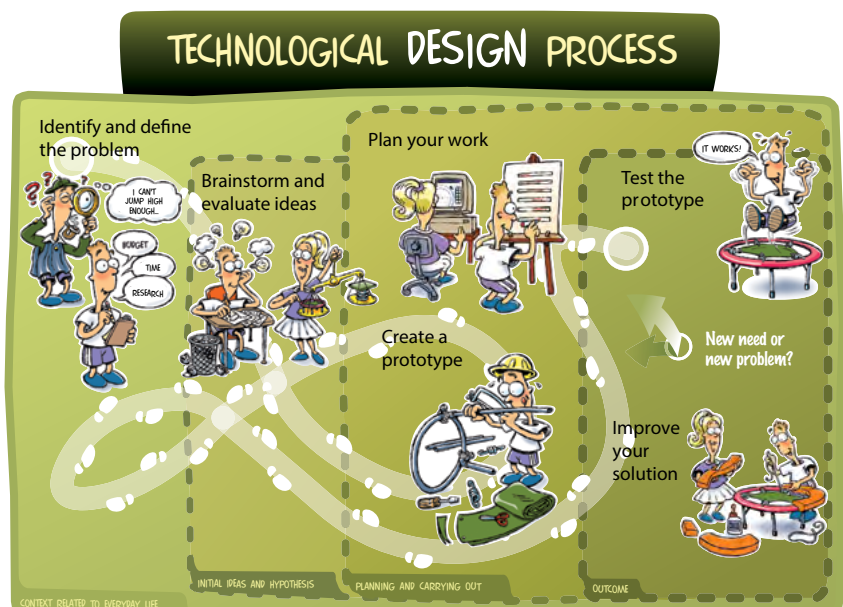


centre de développement pédagogique didaclip



The **technological design process** is what your grandparents use when they want to **make or modify an object**.

For example, improve a frosting recipe for your birthday cake or make a skateboard ramp.



centre de développement pédagogique didaclip

Start your research

1

Which of your grandparents built something recently OR had a question about the world around them?

2

What did your grandparent make OR what question did your grandparent ask?



3

Which of the two processes did your grandparent use?
You can read the description of the processes on the previous page.

☐ *scientific*

If you think it was the **scientific investigation process**, check off what your grandparent did:

- ☐ thought of a question
- ☐ came up with a possible answer (hypothesis)
- ☐ experimented
- ☐ reached a conclusion or formulated a new question

☐ *technological*

If you think it was the **technological design process**, check off what your grandparent did:

- ☐ identified a problem
- ☐ came up with an idea
- ☐ built a prototype (model)
- ☐ tested and possibly made improvements to the prototype



Need some help?

Are you having trouble finding an example of your grandparent acting like a scientist or a technologist? Ask your parents for advice ... they might have some leads for you to follow.



The Interview

You have discovered how your grandparent uses the scientific investigation process or the technological design process. Great! Now you can discuss it with your grandparent, making sure to respect physical distancing.

4

Tell your grandma or grandpa that you have been researching them. You discovered that they are a scientist or a technologist!

Is your grandparent surprised?

☐

yes

☐

no

5

Discuss with your grandparent how the scientific investigation process or the technological design process is a part of their life. Here are some questions to ask them.

For the **scientific investigation process** :

What question did you ask yourself?

What possible answer (hypothesis) did you imagine?

Did you do an experiment to verify that answer?

Did you reach a conclusion?

For the **technological design process**:

What was your problem?

What was your initial idea?

Did you build a prototype (model)?

Did your prototype work the first time you tested it?

6

Ask your grandparent if they can send you a photo of themselves using the scientific investigation process or the technological design process. If you can't get a photo, no problem. Your research is still excellent!



Send us
your results

That's all there is to it. Now you can send the results of your research to the Science Centre.

Go to <https://www.montrealsciencecentre.com/CONTEST> online and fill out the form.

Thank you for your participation!