



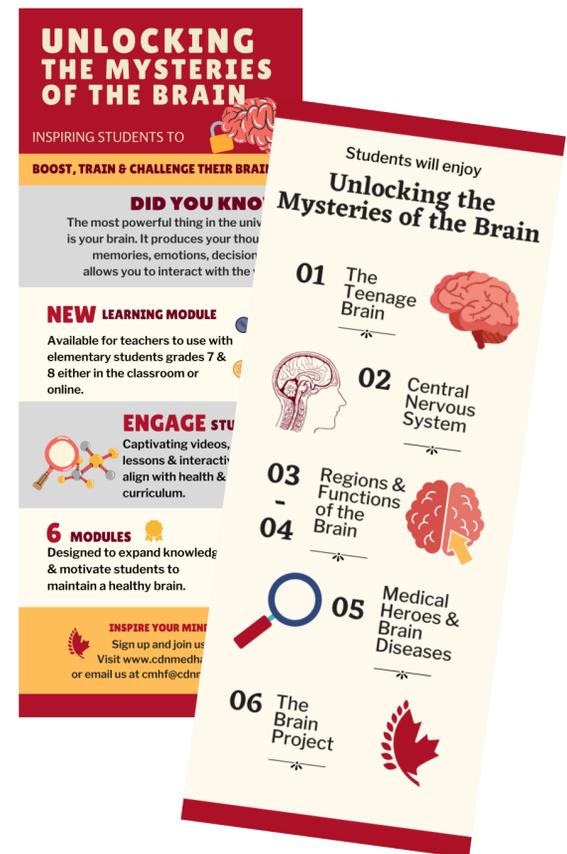
Canadian Medical Hall of Fame

UNLOCKING THE MYSTERIES OF THE BRAIN

At the Canadian Medical Hall of Fame, we *Honour Excellence*, *Preserve History*, and *Inspire Generations*. Interest in the health sciences can begin early and the incredible contributions Canadians are making to advances in our understanding of health and in health outcomes can serve as a source of inspiration to young, developing minds.

Designed for students in grades 7 and 8, **Unlocking the Mysteries of the Brain** is a six-session module that explores the brain and central nervous system in the context of the developing brain and behaviour in adolescence.

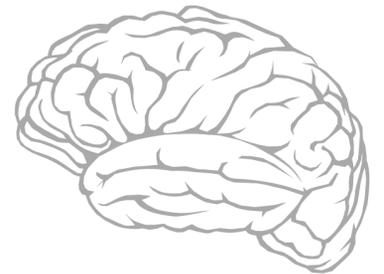
- Each session makes links to related CMHF Laureates and their contributions to our understanding of these vital organs and systems.
- Each session is a learning experience designed with activities that support lesson outcomes, ongoing vocabulary development and journaling.
- Each session package includes a Teacher's Resource document with objectives, guidelines, curriculum links and suggestions for how to facilitate the learning and accompanying activities.



"The program was very educational and fun. I learned about synapses and how the brain works. It's funny that our brain is learning about itself!" - Student Participant

WITH THANKS TO OUR COMMUNITY PARTNERS & VOLUNTEERS

- Ms. Edyta Centeno & the grade 7 & 8 students from Éva Circé-Côté French Immersion Public School
**Educator and student cohort involved in pilot project*
- Alzheimer's Society London & Middlesex
- Brain and Mind Institute, Western University
- Aniruddho Chokroborty-Hoque, PhD | Science Communicator
Western University
- Jin Lee, BMSc | Student, Western University
- Adam Groh | Doctorate Neuroscience, McGill University in progress
- Dr. Chloe Stewart- PhD | Neuroscience
Western University
- Gurneet Jassal | Student, Western University
- Oren Princz-Lebel | PhD | Neuroscience
Western University
- Rachel Wagner | M.Sc. (Candidate) | Neuroscience
Western University
- Laiba Rizwan | M.Sc. | Neuroscience
Western University



Students present final brain project.

Student makes a string neuron

"I really enjoyed learning about the brain, and I found the activities really interesting and enjoyable, I think it is a good idea for other kids around the age 11-13 to do." - Student Participant

LEARNING OUTCOMES

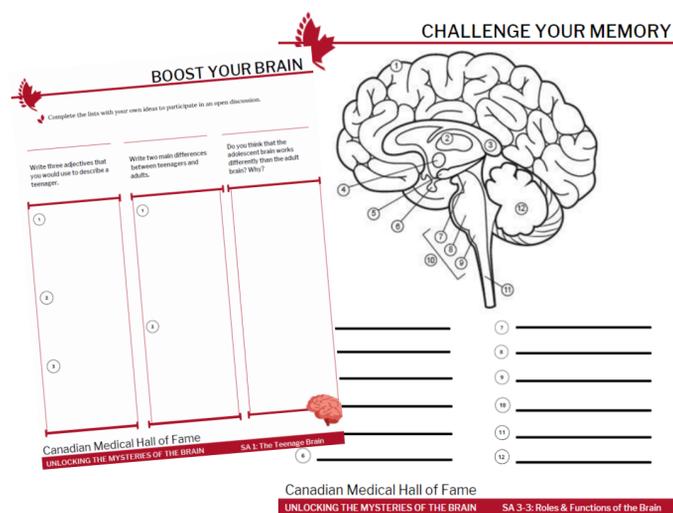
SCIENCE OUTCOMES

- Acquire knowledge of content and conceptual understanding of health sciences and medicine
- Identify the functions of the human brain and the nervous system & describe how they interact with one another
- Explain the relationship between the structure and function of the regions of the brain (frontal, occipital, temporal, and parietal)

HEALTH OUTCOMES

- Explore the adolescent brain and myths about teen development
- Describe motivational strategies to have a healthy brain
- Make meaningful connections between what students already know and what they are learning
- Reflect on how perseverance, determination, teamwork, and innovative thinking by Canada's medical heroes have profoundly impacted health in Canada and the world

Students were definitely inspired by the various Laureates they learned about through this module - their overall message and example of working hard, not giving up, demonstration of resilience, grit and collaboration, and high standards of excellence made a mark on many students that will help them as they pursue their own passions. - Ms. Edyta Centeno, Teacher



Modules explore discoveries and advancements made by CMHF Laureates including the contributions of:

- Max Cynader, PhD
- Brenda Milner, PhD
- Wilder Penfield, MD
- Vladimir Hackinski, MD

As a teacher, I loved seeing that students had opportunities to apply what they learned throughout the sessions and to make connections to their personal experiences. This challenged them to think outside the box while exploring what they thought they knew.

- Ms. Edyta Centeno, Teacher



Model neuron made of tinfoil

WE'VE GOT BIG PLANS

Coming this summer: This virtual learning opportunity will be available to educators across Canada through a landing page on our website - easy to access and download. A comprehensive marketing strategy is under development to ensure that a wide network of elementary learners are given the opportunity to unlock the mysteries of the brain.



Students using brain caps to learn about the regions of the brain

“It was a great experience that I will remember and use throughout my life.”

- Student Participant