

Inventions

Course Description

Did you know that the idea for the microwave oven was set in motion by a melted chocolate bar? While standing in front of a magnetron, inventor Percy Spencer noticed that his treat had begun melting in his pocket. To further test the potential of the magnetron, Spencer held a bag of corn kernels next to it and watched them pop. Whether it is this simple experiment that led to the microwave oven or the students' own creations, this course is about inventors, inventions, and their impact on our world.

How does a toaster work, and what might make it work better? How can a package be designed to mail a potato chip so that it does not break? In this course, students dismantle gadgets to figure out how things work and use ordinary household items to create new inventions. Students apply for mock patents, collaborate with their fellow inventors, keep an inventions journal, and work in teams to create hovercrafts or design more effective burglar alarms. In addition, students research the lives and innovative ideas of inventors past and present.

Throughout the process of inquiry, discover, and problem solving, students explore not only the how and why of various discoveries and inventions, but also their impact across the centuries. This integrated examination of inventions in our world offers young inventors a fuller understanding of the implications and promise of the creative imaginings.

Acquired Skills

Students will be building and developing their academic and personal skills such as "teamwork, problem solving, reading and analyzing scientific literature, listening and understanding, as well as other important skills, they will be taught using an educational kit provided by specialized tutors:

1. Logical Reasoning.
2. Future vision.
3. Positive personal values and traits.

What to Expect When Taking this Course

- An in-depth scientific material.
- Practical activities and scientific projects.
- Skills development.

Course's Calendar

Key dates					
#	Program's start & end dates	Start	End	Start	End
1	Session 1	3/11/1442	21/11/1442	13/6/2021	1/7/2021