

EntreEd™

EXPLORATIONS

STEAM Explorations Kit

Brief Summary of Kit: The STEAM Explorations Kit provides a variety of entrepreneurship and STEAM lessons for your students. These lessons include explorations into artificial intelligence and machine learning, video creation and editing, entrepreneurship financials, and business models.

Enduring Understandings:

Students will understand...

- How machines learn and how a neural network works.
- How to create an edited video trailer from start to finish using basic videography skills and editing tools.
- How to make a profit and loss statement and identify types of profits and losses.
- How many different business models work to generate revenue across various industries.

Essential Questions:

- What is a neural network?
- How do you teach a machine?
- How are industries using Artificial Intelligence and Machine Learning?
- What is a video trailer?
- How do I take a variety of camera shots?
- How can I manipulate basic video editing tools?
- What is a profit?
- What is a loss?
- How do I fill out a balance sheet?
- What are the elements of a business model?
- What business models work well with specific industries?
- How do I find a business model for a particular sector?

Evidence of Learning:

By the end of the unit, students should have produced:

- A working neural network
- A video trailer of themselves
- Profit and loss statements and balance sheets
- A business model for an industry.

Lessons:

- Lesson 1: Artificial Intelligence and Machine Learning
- Lesson 2: Video Creation and Editing
- Lesson 3: Entrepreneurial Financials
- Lesson 4: Business Model Canvas Game

Unit Guidance:

You can use any of the lessons in this kit in any order you choose. It is designed to give students a broad range of choices. You could even run the lessons as stations or rotations and allow students to choose which to explore.