

# Impacts of Artificial Intelligence and Machine Learning: How the A.I. BOTS in Our Lives Learn

## Lesson 1: Introduction to A.I.: What is A.I. and Machine Learning? (Vanessa):

**Learning Target:** Students will be introduced to AI and Machine Learning. Students will discuss the role artificial intelligence plays in their lives.

**Standards:**

**K-1.CT.2 Computational Thinking - Data Analysis & Visualization**

Identify different kinds of data that can be collected from everyday life.

**2-3.IC.1 Impacts of Computing**

Identify and analyze how computing technology has changed the way people live and work.

**2-3.IC.3 Impacts of Computing**

Discuss and explain how computing technology can be used in society and the world.

**2-3.IC.5 Impacts of Computing**

Identify and discuss how computers are programmed to make decisions without direct human input in daily life.

### **Introduction/Hook:**

Students will watch a video to make a connection to us, humans, and how there is a computer who learns to think like human.

- Video: [AI and Machine Learning](#)
- Optional Video: [AI: What is Machine Learning?](#)

### **(I Do):**

Let's define what AI and machine learning is. [What is AI and Machine Learning?](#)

- AI is the acronym for artificial intelligence.
  - What is artificial intelligence?
    - Source: [What is AI for Kids? An Introduction to Artificial Intelligence for Kids | Inspirit Scholars](#)
    - [Artificial intelligence Facts for Kids](#)
- Machine learning is learning how to perform a task from a collection of examples. It is how computers recognize patterns and make decisions without being explicitly programmed.
  - Source: <https://machinelearningforkids.co.uk/#!/about>
  - [Children's Guide to Machine Learning | by Kannan Kumar | Towards Data Science](#)

### **(We Do):**

Students will discuss the role artificial intelligence and machine learning plays in our lives. The teacher will model the activity, [Emoji Scavenger Hunt](#), with the students. The students will then work on the activity as a group work. In this Emoji Scavenger Hunt, the students will find items in the real world to match with the emoji shown on camera. While the students hold objects in front of the camera, the AI will ask and try to identify the object held if it does not match with the emoji. As it is timed, the students will complete one round with the teacher looking for the correct items or resembles the item.

### **Independent Activity (You Do):** [Emoji Scavenger Hunt](#)

The students would work as group to complete the activity, [Emoji Scavenger Hunt](#), and score as high as possible. After the activity, the students will turn and discuss with each other what they noticed about the AI and the activity.

### **Wrap-Up-Debrief/Reflection: How do you want to be assessed ? Peer or Self Assessment**

#### **Conversation Talk about the activity with your peer (Peer Assessment):**

Turn and Discuss:

1. Discuss about what you noticed about the AI.
2. Discuss what the AI "sees."
3. What did you learn about AI during this activity?
4. What surprised you about the activity/AI?

#### **Self Assessment:**

Exit Ticket:

Define in your own words:

- What is AI?
- What is machine learning?