

# AI Lesson Plan

*Develop a lesson plan to demonstrate how you would use AI in your classroom to fit your grade/age level. Lesson plans will be shared at the final live session on December 17th.*

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**Subject(s) Taught:** Professional Development for ES and MS teachers who are teaching or want to teach Computer Science

**Grade Level:** ES and MS Teachers

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## Intro & Purpose

Describe how you would introduce your topic to spark student interest.

**This lesson provides an introduction to Artificial Intelligence. Participants will:**

- **Develop a basic understanding of AI**
- **Develop definitions of the key terms**
- **Experience and identify examples of AI**
- **Experience and evaluate resources they might use with their students**

**Warm Up or Anticipatory Set: What is AI?**

- Generate a discussion of what AI is by having participants record responses with post it notes on the Jamboard: [What is your definition of AI?](#)
- Discuss definitions and then watch video: [Video: What is AI \(or Machine Learning?\)](#)
- (Throughout the lesson, participants can take notes in [Intro to AI Notes Doc](#) )

## Key Terms

List the key terms relevant to your topic.

Artificial intelligence  
Robot  
Machine Learning  
Neural Network

## Activity

Describe a learning activity that would aid student understanding of your topic. List the resources needed.

### Activity 1: Robots or AI

#### Robot or AI Venn Diagram:

- Have participants place items on a Venn diagram based on whether or not they describe an example of a robot or AI or combination.
- Discuss rationale behind placement of items.
- Discuss additional items that could be added.

### Activity 2: Machine Learning

- [Quick Draw](#) Participants help teach a computer to recognize doodles using the world's largest doodling data set.
- Reflect as a group on the activity (what did you like, what was surprising, could you use this with your students?)
- After participants try out Quick Draw, watch the short video on how it was created: [Quick Draw Video](#)
- For further information, watch the Code.org video: [What is Machine Learning?](#)

### Activity 3: Neural Network

- Show a sample audio model project on [Teachable Machine](#)
- Watch the video [AI Explained - What is a Neural Net?](#) Discuss why large sets of data are needed to train computers to recognize images.

### Activity 4: Reflection

- Participants complete last section of [Intro to AI Notes Doc](#) on their own
- Pair up participants to discuss their reflections
- Whole group share out on reflections

## Assessment

Describe how you would assess student learning and understanding

The last part of the [Intro to AI Notes Doc](#) contains a reflection for teachers to respond to the following prompts:

- What did you learn about AI?
- What questions do you have about what you've learned today?
- Which activities do you think you might use with your students?

This assessment will be done as a Think - Pair - Share activity.