

SUMMATIVE ASSESSMENT



LESSON RATIONALE:

The usage of algorithms is expanding. They are currently used to determine criminal status, sort applicants in the job hiring process and create playlists on our favorite streaming services. But what happens when those algorithms cause harm to communities and individuals? What happens if they sway elections or find the wrong person guilty? While algorithms can help streamline and make processes quicker and more efficient users need to realize that errors are still programmed into them.

In this final lesson, students will demonstrate their learning from the previous unit.

INTRODUCTION (10 MINS)

Welcome students to class. Ask students to respond to the following question on a piece of paper:

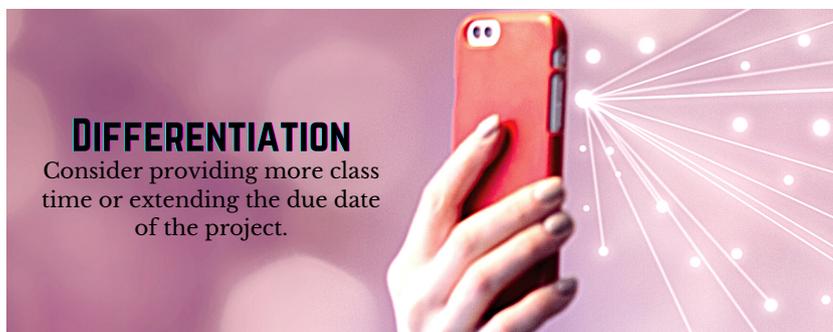
- What is one thing that you have learned in the previous unit on algorithms that stands out to you?
- Why do you think it stands out to you?

Call on a few students to share what they wrote. Alternatively, students can share with a shoulder partner.

ASSESSMENT (38 MINS)

Pass out the “Predicting Algorithms Future” instructions, one per student. Read through the instructions aloud to students, pausing to answer any questions or concerns students may have.

For the remaining class period, provide class time for students to work on their summative project.



WRAP UP (2 MINS)

Share with students that they will have class time to complete their project, or have them complete their project as homework.

GRADE LEVEL

High School
Grades 9-12

TIME

45-60
minutes (mins)

COMMON CORE STANDARDS

CCSS.ELA-LITERACY.W.9-10.9
CCSS.ELA-LITERACY.RH.9-10.4
CCSS.ELA-LITERACY.RH.9-10.3
CCSS.ELA-LITERACY.RST.9-10.5
CCSS.ELA-LITERACY.WHST.9-10.1.E

MATERIALS

Paper
Writing Utensil
1:1 Technology - if available
Predicting Algorithms Future
Worksheet

LESSON OBJECTIVE(S):

Expand and explain their understanding of algorithms, algorithmic bias, and algorithmic governance.

Predict the future of algorithms using their understanding from the unit.

ESSENTIAL QUESTION:

How do algorithms, algorithmic bias, and algorithmic governance impact me?

KEY VOCABULARY

Algorithm
Messy Data
Axis of Facts
Algorithmic Discrimination
Axis of Bias
Axis of Storytelling
Privacy
Social Credit Scores
Due Process
Filter Bubble

CLASSROOM SETUP

Students will be working independently. Desks should be set up to best support independent work time.

Name:

Date:

PREDICTING ALGORITHMS' FUTURE

INSTRUCTIONS:

For your summative assessment you will predict the future of algorithms. Using your understanding and learning from this unit, choose to focus on one of the following areas:

- ALGORITHMS
- ALGORITHMIC BIAS
- ALGORITHMIC GOVERNANCE

The rest is up to you. You can choose to write an interactive blog with hyperlinks, record a video, screencast, or podcast, create a PowerPoint presentation, or use a platform that is approved by your teacher.

Your argument for this project should follow this template:

The future of _____ (algorithms, algorithmic bias, or algorithmic governance) is _____ because _____.

ADDITIONAL NOTES: