

Learning Objectives:

- Students will be introduced to the Python Language
- Students will begin to compare Python and Javascript.
- Students will learn how to use Replit.

Standards:

9-12.CT.5 Modify a function or procedure in a program to perform its computation in a different way over the same inputs, while preserving the result of the overall program.

Resources: Slides**Aim:** What is Python?

Do Now: Students will explore Python on their own.

- This will lead into a discussion around the differences between block-based programs and text-based programs.

Task 1: What are some differences and similarities between **Python** and **Javascript**?

- Students will read an article discussing the differences between Python and Javascript with a partner.
- We will then come together to discuss whole-class
- Do not spend too much time on this discussion! Students will start to discover these things as they program throughout the unit.

Mini-lesson: REPL/Python

- Students will be introduced to Repl.it and how to use it
- Students will complete a quick code along to print "Hello World"
- Teacher will go through the "anatomy" of a line of code in Python.
- Students will be asked to predict the output of a few lines of code.

Task 2: Write a story!

- Students will be given the following task:
 - Write a few lines of code that tell a story.
 - Use another **print()** every time you want a new line!
- If students feel like they want to venture out, they can read the Python documentation to learn more!

Summary: Students will be asked to reflect on today's activities with the following question:

- Based on what you know so far, what are some advantages, for you personally, of using Python over Javascript?