

# Unit 1 - Text-based vs. Block-based Programming This unit introduces students to a text based coding IDE, Console and starts to transition them away from a block based language and into Python. ## Essential Questions

- \* What is Python?
- \* What is an IDE?
- \* What are the basics to programming with Python?
- \* How do you use the console?
- \* How do apply what I learned in Snap to programming in Python?

## Pacing Guide ### Timing 1 Day = 50 minute class period | Lesson | Days | Slide Decks | | ----- | ----- | ----- | 1.01: Set Up | 1 | [1.01 Slide Deck] | 1.02: Interactive Mode | 1 | [1.02 Slide Deck] | 1.03: Script Mode and Variables | 1 | [1.03 Slide Deck] | 1.04: Variables Input | 1 | [1.04 Slide Deck] | 1.05: Quiz & Debugging | 1 | [1.05 Slide Deck] | 1.06: MadLibs | 2 | [1.06 Slide Deck] | \*\*Total Days\*\* | 7 | | \*\*Total Minutes\*\* | 350 | | [1.01 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1\\_unit/slidedecks/Intro%20Python%201.01%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1_unit/slidedecks/Intro%20Python%201.01%20TEALS.pptx) [1.02 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1\\_unit/slidedecks/Intro%20Python%201.02%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1_unit/slidedecks/Intro%20Python%201.02%20TEALS.pptx) [1.03 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1\\_unit/slidedecks/Intro%20Python%201.03%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1_unit/slidedecks/Intro%20Python%201.03%20TEALS.pptx) [1.04 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1\\_unit/slidedecks/Intro%20Python%201.04%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1_unit/slidedecks/Intro%20Python%201.04%20TEALS.pptx) [1.05 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1\\_unit/slidedecks/Intro%20Python%201.05%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1_unit/slidedecks/Intro%20Python%201.05%20TEALS.pptx) [1.06 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1\\_unit/slidedecks/Intro%20Python%201.06%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/1_unit/slidedecks/Intro%20Python%201.06%20TEALS.pptx) ## Key Terms \* IDE \* Python \* Interpreter \* String \* Integer \* Float \* Value \* Errors \* console \* Expression \* Script \* Print \* Run \* output \* Variable \* Script Mode \* Interactive Mode \* Comments \* Storing \* Mutability \* Variable Assignment \* Input \* Debugging \* Syntax