

# Unit 4 - For Loops and Nesting ## Essential Questions \* How do you iterate through the items of a list using a for loop? \* How do you use a nested for loop to do a stack trace? \* How do you use for loops to traverse a list? \* How do you debug programs utilizing nested for loops and lists?" ## Pacing Guide #### Timing 1 Day = 50 minute class period | Lesson | Days | Resources | | ----- | ---- | ----- | | 4.01: Looping Basics | 1 | [4.01 Slide Deck] | | 4.02: For Loops, Nested Loops | 1 | [4.02 Slide Deck] | | 4.03: Nested For Loops | 2 | [4.03 Slide Deck] | | 4.04: Nested Lists & Looping | 2 | [4.04 Slide Deck] | | 4.05: Debugging and Quiz | 1 | [4.05 Slide Deck] | | 4.06: Tic-Tac-Toe | 9 | [4.06 Slide Deck] | | \*\*Total Days\*\* | 16 | | \*\*Total Minutes\*\* | 800 | | ## Key Terms \* For Loop \* Item \* Iteration \* Scope \* Range \* Nested For Loops \* Stack Trace \* Nested List [4.01 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4\\_unit/slidedecks/Intro%20Python%204.01%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4_unit/slidedecks/Intro%20Python%204.01%20TEALS.pptx) [4.02 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4\\_unit/slidedecks/Intro%20Python%204.02%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4_unit/slidedecks/Intro%20Python%204.02%20TEALS.pptx) [4.03 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4\\_unit/slidedecks/Intro%20Python%204.03%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4_unit/slidedecks/Intro%20Python%204.03%20TEALS.pptx) [4.04 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4\\_unit/slidedecks/Intro%20Python%204.04%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4_unit/slidedecks/Intro%20Python%204.04%20TEALS.pptx) [4.05 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4\\_unit/slidedecks/Intro%20Python%204.05%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4_unit/slidedecks/Intro%20Python%204.05%20TEALS.pptx) [4.06 Slide Deck]: [https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4\\_unit/slidedecks/Intro%20Python%204.06%20TEALS.pptx](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/4_unit/slidedecks/Intro%20Python%204.06%20TEALS.pptx)