

Lesson 6.04: Dictionaries Looping ## Learning Objectives Students will be able to... * Use loops to traverse through key/value pairs in a dictionary ## Materials/Preparation * [Do Now] * [Lab - Dictionaries Looping] ([printable lab document]) ([editable lab document]) * [Associated Reading - section 6.4] (<https://tealsk12.gitbook.io/intro-cs-2/readings#6-4>) * Read through the do now, lesson, and lab so that you are familiar with the requirements and can assist students ## Pacing Guide | **Duration** | **Description** | | -----
---- | ----- | | 5 Minutes | Do Now | | 10 Minutes | Lesson | | 35 Minutes | Lab | | 5 Minutes | Debrief | ## Instructor's Notes ### 1. Do Now * Display the Do Now on the board. * Students apply the `.keys()` method and investigate the type produced. ### 2. Lesson ##### Discuss part 1 of the Do Now * Ask students what type was returned. ##### Discuss part 2 of the Do Now * Ask for a small number of students to write their solution on the board. * Discuss that it is possible to do just `for key in my_dictionary:`, but behind the scenes this is similar to calling the `.keys()` function. * Discuss that the order of the list is not exactly what was expected. * Unlike lists, dictionaries have no guaranteed order. ### 3. Lab * Students will rewrite their word count lab (Lab 6.02) to return the top 5 most frequently occurring words. ### 4. Debrief * Take a moment to discuss any common areas of confusion or challenge that came up during the lab. * Talk about how `in` works for dictionaries for the bonus. ## Accommodation/Differentiation Students that are moving quickly can explore sorting additionally in the bonus activity. Some students may need a second class period to complete this lab. ## Forums discussion [Lesson 6.04: Dictionaries Looping (TEALS Discourse Account Required)](<https://forums.tealsk12.org/c/2nd-semester-unit-6-dictionaries/lesson-6-04-dictionaries-looping>) [Do Now]: [do_now.md.html](#) [Lab - Dictionaries Looping]: [lab.md.html](#) [printable lab document]: https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/6_unit/04_lesson/lab.pdf [editable lab document]: https://github.com/TEALSK12/2nd-semester-introduction-to-computer-science/raw/master/units/6_unit/04_lesson/lab.docx