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# Lesson 6.05: Dictionaries Project ## Learning Objectives Students will be able to... * Use dictionaries to create
the game [Guess Who] ## Materials/Preparation * [Do Now] * [Project Spec - Buy an Umbrella] ([printable
Spec])([editable spec]) * Alternate Project - [Project Spec - Guess Who] ([printable project Spec]) ([editable
project spec]) * Solution (access protected resources by clicking on "Additional Curriculum Materials" on the
[TEALS Dashboard]) * Read through the do now and project spec so that you are familiar with the requirements
and can assist students. * Try creating your own variation on the Guess Who game so you are familiar with the
potential challenges and bugs your students will hit. * Review [4 Steps to Solve Any CS Problem] * [Editable
Grading Rubric](https://github.com/TEALSK12/2nd-semester-introduction-to-computer-
science/raw/master/units/6 unit/05 lesson/rubric.docx) ## Pacing Guide ### Day 1 | **Duration** |
**Description** | | ------ | ------ | 5 Minutes | Do Now | | 10 Minutes | Review | | 10 Minutes | Project
Overview | 30 Minutes | Project Planning | ### Days 2-7 |**Duration**|**Description**| |--|--| | 5 Minutes |
Planning/Questions | | 10 Minutes | Review (if necessary) | | 35 Minutes | Project Work | | 5 Minutes | Wrap up |
## Instructor's Notes - Day 1 ### 1. Do Now * Display the Do Now on the board. * Students should take a few
moments to rank which topics they found most difficult during this unit. ### 2. Review * Take time to review the
concepts students found most challenging during this unit. ### 3. Project Overview * Go over the project spec
details with the students. * Demo a completed project. ### 4. Planning * Have the students design the variables,
functions, dictionaries, lists, and structure they need, using pseudo code to help them visualize. * Have the
students write out a plan /outline for how they will spend time over next few days. * Any students that finish
their plan and have it checked should begin project work. ## Instructor Notes - Days 2-7 ### 1.
Planning/Questions * Have the students write down what they want to accomplish that day and any questions
they have from the previous class. ### 2. Review (if necessary) * Go over any concepts or challenges that
students are having. ### 3. Project Work * Students work independently to complete their projects and meet their
daily goals ### 4. **Wrap Up** * Discuss common issues that students were having each day, provide
suggestions for how to overcome those challenges. ## Accommodation/Differentiation * Some students may
need a refresher on using a 'while' loop to control whether the game is over or not. * Some students may also
need additional assistance or scaffolding for how to randomly choose a character from the dictionary. * For
students who are looking for more of a challenge, we have added a second project called [Project Spec - Buy an
Umbrella] ## Grading [Editable Grading Rubric](https://github.com/TEALSK12/2nd-semester-introduction-to-
computer-science/raw/master/units/6 unit/05 lesson/rubric.docx) ### Objective Scoring Breakdown | Points |
Percentage Objective | Lesson | | :---: | :---: | --- | | 6 | 20% | The Student uses dictionaries to create key-value
pairs | 6.01 | 9 | 30% | The Student can use dictionary methods to update, add, and remove values from a
dictionary |6.02 | |3 | 8% | The Student can utilize dictionaries of different types |6.03 | |3 | 8% | The student can
use loops to traverse through key/value pairs in a dictionary|6.04 | |5 | 17%| Student can decompose a problem to
create a program from a brief | |5 | 17% | Student uses naming/syntax conventions and comments to increase
readability | | | | 31 | | **Total Points** | | ## Forums link [Lesson 6.05: Dictionaries Project (TEALS Discourse
Account Required)](https://forums.tealsk12.org/c/2nd-semester-unit-6-dictionaries/lesson-6-05-guess-who) [Do
Now]: do now.md.html [Project Spec - Guess Who]: project.md.html [Project Spec - Buy an Umbrella]:
projectb.md.html [TEALS Dashboard]:http:/www.tealsk12.org/dashboard [Guess
Who]:https://en.wikipedia.org/wiki/Guess Who%3F [4 Steps to Solve Any CS
Problem]:https://github.com/TEALS-IntroCS/2nd-semester-introduction-to-computer-science-
principles/raw/master/units/4%20Steps%20to%20Solve%20Any%20CS%20Problem.pdf [printable project
Spec]: https://github.com/TEALSK12/2nd-semester-introduction-to-computer-
science/raw/master/units/6 unit/05 lesson/project.pdf [editable project spec]:
https://github.com/TEALSK12/2nd-semester-introduction-to-computer-
science/raw/master/units/6 unit/05 lesson/project.docx [printable Spec]: https://github.com/TEALSK12/2nd-
semester-introduction-to-computer-science/raw/master/units/6 unit/05 lesson/projectb.pdf [editable spec]:
https://github.com/TEALSK12/2nd-semester-introduction-to-computer-
science/raw/master/units/6 unit/05 lesson/projectb.docx
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