**Lesson: JavaScript Conditionals**

SWBAT: Write code for “if-else” and “if-else if-else” conditional statements.

This is an introductory lesson for high school students who are beginning to learn how to code using JavaScript. It is a precursor to standard: 9-12.CT.8 Develop a program that effectively uses control structures in order to create a computer program for practical intent, personal expression, or to address a societal issue. The focus is on combining different forms of repetition and conditionals, including conditionals with complex Boolean expressions

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| **Time** | **Part** |
| 5 min | Do Now: Read the scenario from Alice’s Adventures in Wonderland by Lewis Carroll. Write down all the conditional statements in the text.  "If you think we're wax-works," he said, "you ought to pay, you know.” "Contrariwise" added the one marked 'DEE', "if you think we're alive, you ought to speak." "I'm sure I'm very sorry," was all Alice could say. "I know what you're thinking about," said Tweedledum: "but it isn't so, nohow." "Contrariwise," continued Tweedledee, "if it was so, it might be; and if it were so, it would be: but as it isn't, it ain't. 'That's logic."  Show students the scene from Disney’s Alice in Wonderland. <https://www.youtube.com/watch?v=ksnloU_LXyU> (up to around 1 minute). Call on students to identify the conditionals from the scene and the text from the Do Now. There are 5 different statements. Lewis Carroll, the author of *Alice’s Adventures in Wonderland*,” was a mathematician whose field was Logic. There are lots of mathematical, logical and illogical references in the books. |
|  | Mini-Lesson: Review: Conditionals are “if-then” statements. In the first conditional, what is implied if Alice doesn’t think Dee and Dum are wax figures? Call on a student. The implication is that if they are not wax figures, you don’t have to pay. Ask about the implication for the second statement. If Alice doesn’t think Dee and Dum are alive, she doesn’t have to speak. These statements are related to writing conditionals in JavaScript. In JavaScript, instead of “then” we use “else.”  Instruct students to open the ConditionalsDemo file. Run the code. Answer the prompted questions. Look at the outputs. Then re-run the code using different answers. Look at the outputs. |
|  | Activity: |
|  | Summary: |