Hour of Code

Inspired by Hour of Code website
Written by PWC

Grade Range: 2nd- 8th **Time:** 60 Minutes

Synopsis: Hour of Code is a one-hour introduction to computer science. Activities require no experience and can be run on browsers, tablets, and smartphones; Some don't require a computer at all. The Hour of Code is a global movement reaching tens of millions of students, in 180+ countries, with over 200+ one-hour tutorials available in over 45 languages. The lesson below walks through the one hour of code activity, but feel free to try one of the many at: https://code.org/learn.

Materials:

- Computer or iPad
  - If school/classroom does not have computers/iPads available, consider having employees bring their own and working in groups
- Internet
  - If internet is not available in the classroom, download one of the following offline versions of Hour of Code beforehand:
    - https://studio.code.org/download/mc
    - https://studio.code.org/download/starwars

Instructions:

1. (Optional) Present the introduction video: https://www.youtube.com/watch?v=qYZF6olZtfc
2. Review vocabulary words
   a. **Coding** - mean to write code, or to write instructions for a computer.
   b. **Programming** - similarly, means to write code or instructions. Today, you will program with blocks on the computer.
   c. **Sequencing** - Putting commands in the correct order so that computers can read the commands (Use an example of the importance of this, like how you bake a cake and have to follow steps in a certain order (i.e. you can't bake the cake before you have your ingredients mixed).
   d. **Bug** - Part of a program that does not work correctly
   e. **Debugging** - Finding and fixing problems in a program or algorithm
3. Have students navgitate to a web browser and enter the following URL: https://studio.code.org/hoc/1.
4. A video will appear with instructions (https://youtu.be/bQilo5ecSX4). Watch individually or as a class.
5. Have students work to complete all the puzzles (this can be done individually, in pairs or small groups).