**AP CSP CodeBot**

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| **MISSION 2 Introducing CodeBot** | | **Time: 45 minutes** |
| **Project Goal:** Students will learn about the peripherals of CodeBot and the basics of Python.  **Learning Targets**   * I can identify the main components of the CodeBot. * I can safely connect and disconnect the CodeBot using the USB cable. * I can create a new file. * I can write code using the conventions of comments and correct punctuation. | **Key Concepts**   * There are a lot of hardware peripherals on the CodeBot, including sensors, LEDs, motors, buttons, and a speaker. * Python requires all objects – variables, peripherals, etc. – to be spelled exactly the same; capitalization matters! * Adding comments and blank lines in your code makes it easier to read. | |
| **Assessment Opportunities**   * Mission 2 Assignment (has a picture of CodeBot) * Quiz after Objective 5. * Submit program after Objective 10. * [Mission 2 Kahoot! Review](https://create.kahoot.it/share/firia-labs-codebot-mission-2/2925c213-a0c5-4ed4-8efa-45dc8d9db0e7) | **Success Criteria**   * Identify the parts of the CodeBot * Create a new file * Import the botcore library and turn on an LED * Use descriptive comments | |
| **AP CSP Framework**  **Computational Practice 5.A** Explain how computing systems work. | **Materials**   * Mission 2 Assignment / Answers * [Mission 2 Kahoot! Review](https://create.kahoot.it/share/firia-labs-codebot-mission-2/2925c213-a0c5-4ed4-8efa-45dc8d9db0e7) | |
| **Teacher Notes**   * The Mission 2 Assignment has a picture of a CodeBot for students to label. The bottom of the second page has the names of the parts. You can give the list to students, or delete the list and have students remember all the parts without help. * Another suggestion for assessment is for students to keep a daily journal, or use a reflection form for students to process information they learned and reflect on questions they may still have. * Refer to the CodeBot Curriculum Guide for specific information about this mission. | | |