|  |  |
| --- | --- |
| **Learning**  **Outcomes** | * TLW learn about push buttons on the Boe-Bot * TLW learn break a keypad code set by the instructor. * TLW build a circuit incorporating push buttons. * TLW program a code on their own push button keypads |

|  |  |  |
| --- | --- | --- |
| **Materials List** | | |
| * Boe-Bot * Laptop/computer * PBasic Stamp Program * USB cable & adapter | * Push buttons * Jumper wires * Universal Remote Control | * 10kΩ Resistors (1 for each push button) * LED’s (3 each) |

|  |  |
| --- | --- |
| **Lesson**  **Summary** | * Present Boe-Bots with premade codes * Have students try to break the codes * Have students build their own push button keypads * Have student begin writing program to set their own keypad codes |

|  |  |
| --- | --- |
| **Homework** | Write program for keypad to be used in Lesson 55 |

|  |  |
| --- | --- |
| **Resources** |  |
|  |

|  |  |
| --- | --- |
| **Relevant Standards** | |
| GLEs |  |
| Guiding  Questions |  |