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| **Learning**  **Outcomes** | * TLW build a circuit incorporating push buttons. * TLW program a code on their own push button keypads * TLW break codes set by classmates |

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| **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) |

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| **Lesson**  **Summary** | * Have students finish building their push button keypads * Have student finish writing program to set their own keypad codes * Have students try to break the codes set by classmates. |

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

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| **Resources** |  |
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| **Relevant Standards** | |
| GLEs |  |
| Guiding  Questions |  |