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| **Learning**  **Outcomes** | * TLW learn about infrared detectors. * TLW build a circuit incorporating IR detectors. * TLW use a universal remote to control the motion of Boe-Bots |

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| **Materials List** | | |
| * Boe-Bot * Laptop/computer * PBasic Stamp Program * USB cable & adapter | * Infrared detectors * Jumper wires * Universal Remote Control * 220Ω Resistor |  |

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| **Lesson**  **Summary** | * Discuss infrared detectors with students * Create circuit using infrared detectors * Have students control he Boe-Bot Motion by using a universal remote control |

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| **Homework** |  |

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| **Resources** | Text Reference: |
| * Robotics with the Boe-Bot (pg 237-261) |

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