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| **Learning**  **Outcomes** | * TLW learn about infrared sensors. * TLW build a circuit incorporating IR sensors. * TLW use IR sensors to navigate along a wall to a certain destination. |

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| **Materials List** | | |
| * Boe-Bot * Laptop/computer * PBasic Stamp Program * USB cable & adapter | * Infrared detectors * IR LEDs (clear case) * IR LED shield assemblies | * 220Ω resistor * 1kΩ resistor * Maze |

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| **Lesson**  **Summary** | * Discuss infrared sensors with students * Create circuit using infrared sensors * Have students complete task of navigating a maze using the IR sensors |

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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 |  |