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| **Learning**  **Outcomes** | * TLW compete in a dead reckoning maze competition. * TLW be introduced to photoresistors. * TLW build a circuit with photoresistors and capacitors in order for the Boe-Bot to follow the beam of a flashlight. * TLW apply the RCTime command in the program. |

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| **Materials List** | | |
| * Boe-Bot * Laptop/computer * PBasic Stamp Program * USB cable & adapter | * 2-Extended Photoresistors * Jumper Wires * 2-22oΩ Resistor | * 2-0.01µF Capacitors * Flashlight |

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| **Lesson**  **Summary** | * Have student compete in the dead reckoning maze competition. * Have students calibrate photoresistors. * Have students make Boe-Bot follow a flashlight beam using programming in the Basic Stamp Editor. |

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| **Homework** |  |

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| **Resources** | Text Reference: |
| * Robotics with the Boe-Bot (pg 193-229) |

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