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| **Learning**  **Outcomes** | * TLW be introduced to the dead reckoning process. * TLW perform calibration on their Boe-Bots for the dead reckoning maze competition. |

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| **Materials List** | | |
| * Boe-Bot * Laptop/computer * PBasic Stamp Program | * USB cable & adapter * Ruler * Maze | * Stopwatch(es) * Maze dimensions Handout |

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| **Lesson**  **Summary** | * Introduce the students to dead reckoning * Teach the students how to calibrate their Boe-Bots * Have students calibrate their Boe-Bots * Have students begin working on their dead reckoning navigation through a maze (individually or groups, suggestion: groups of two) |

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| **Homework** | Work on Dead Reckoning Skills to Navigate the Maze for the competition in 4 class periods. |

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| **Resources** | Text Reference: |
| * Robotics with the Boe-Bot (pg. 133-135) |

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