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| **Learning**  **Outcomes** | * TLW become familiar with the servo components. * TLW learn which pulse widths are associated with which pulse duration values and the corresponding rotation directions. * TLW learn how to make the Boe-Bot move. |

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| **Materials List** | | |
| * Boe-Bot * Laptop/computer | * PBasic Stamp Program * USB cable & adapter | * Pencil * Books * Ruler |

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| **Lesson**  **Summary** | * Discuss servo components * Discuss the pulse widths and the associated pulse duration value * Discuss which pulse duration value corresponds to which rotation direction * Students will program the Boe-Bot maneuver around a pencil and return to its starting position (teams of two) |

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| **Homework** |  |

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| **Resources** | Text Reference: |
| * Robotics with the Boe-Bot (pg 75-81) |

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