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| **Learning**  **Outcomes** | * TLW be introduced to subroutines as a programming technique. * TLW be use subroutines to navigate the Boe-Bot in a Figure 8 pattern. |

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| **Materials List** | | |
| * Boe-Bot * Laptop/computer | * PBasic Stamp Program * USB cable & adapter | * Books/cups/blocks used for marking the figure 8 pattern |

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| **Lesson**  **Summary** | * Introduce the concept of subroutines * Have students write a program that uses subroutines to move forward, backwards, turn right, turn left * Have the students set up a Figure 8 pattern * Using the subroutines, have the students navigate around blocks in a Figure 8 pattern |

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| **Homework** |  |

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| **Resources** | Text Reference: |
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| **Relevant Standards** | |
| GLEs |  |
| Guiding  Questions |  |