



I can identify skills required for a task and develop these skills as needed.

Emerging

Operating the Blue-Bot

- I can turn on Blue-Bot's power and sound.
- I can create and clear a series of random commands using the buttons.
- I understand the directional language *left, right, forward and backward*
- With support, I can choose a group to work with and take turns in the group.

Developing

Coding

- I can plan an algorithm by drawing arrows or using command cards.
- I apply the 4 directions accurately with trial and error.
- I can try to use an algorithm to send Blue-Bot to a pre-planned location on a mat.
- I can take turns and solve some problems in my group.

Independent

Coding and Debugging

- I can plan an algorithm by drawing arrows or using command cards.
- I almost always distinguish correctly between *left* and *right*.
- I can debug my algorithm if Blue-Bot does not reach the mat location I planned.
- I take turns with my group and solve problems independently.

Extending

Designing a Challenge

- I have new ideas for Blue-Bot environments and obstacles.
- I can add challenges to my algorithms (e.g. arrive at a destination while avoiding an obstacle or making the fewest possible moves).
- I have mastered Blue-Bots 4 directions and accurately apply this thinking to algorithms.
- I can mentor others learning to code and debug Blue-Bot.



Student Self-Reflection:

Teacher Feedback:



