



OTIS
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Lesson Plan Activity



KIBO SNOWPLOW CHALLENGE



Materials Used:

Design Space:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.





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Data:

Reflections:

Trial #	# of "Snowballs" Collected
Trial 1	
Trial 2	
Trial 3	
Trial 4	



1. What went well?

2. What do you need to improve?



Task:

Students will be tasked with using the KIBO robot to create a functioning snowplow. The goal of this challenge is to pick up as many snowballs (cotton balls) as possible.

Procedure:

- Determine what materials students will have access to: KIBO robot, consumables, etc.
- Place students into groups if the task will be collaborative
- Review relevant concepts and provide background information for students
- Distribute the student worksheet. You may wish to hold off on distributing the supplies at this time, until students have planned out their design
- Provide students with enough time to plan and build their snowplows.
- Once students have completed their build, provide students with enough time to test their design and make any adjustments and improvements to their design to try and meet the task requirements

