

Waterbots

Student Worksheet

Read the following

Working with a partner, you will demonstrate how robotics work.

Materials

blindfolds

small paper cups

gallon jugs of water (sand, beans, or beads to reduce mess)

large buckets

measuring cup

Preparations

Working with a partner, one student will become the Waterbot and the other will be Mission Control.

1. The Waterbot knows only very simple commands such as:

Go Left	Go Backward
Go Right	Go Forward
Bend	Stop
Pour	

2. Blindfold the Waterbot and fill a cup with water.
3. Mission Control should then give instructions that will lead the Waterbot to the bucket to dump the cup of water.
4. Switch roles, but continue with a new empty bucket.
5. Continue these procedures until each student has had at least one chance to be Mission Control and the Waterbot.
6. When finished, measure the amount of water in each of the buckets to see which person wins.
7. Complete Questions & Reflection.

Questions & Reflection

1. How much water was in your bucket? _____
2. How much water was in your partner's bucket? _____
3. How simple/complicated was this activity? _____

4. Which is more important speed or accuracy? Why? _____
