

ROBOTICS LAB

ACTIVITY GOALS

- ✔ Today we will cooperate with others, work to stay safe, and have fun.

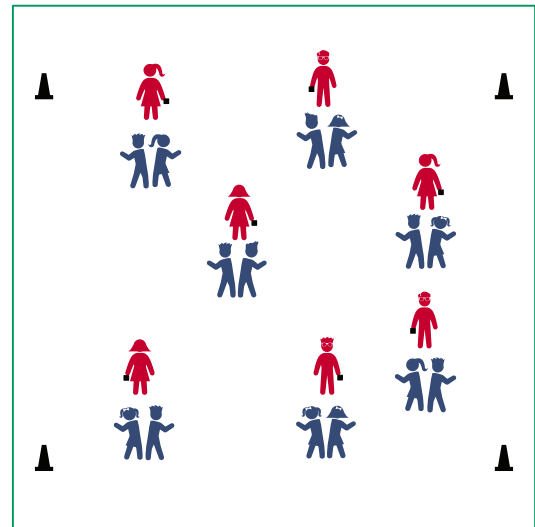
ACTIVITY SET-UP & PROCEDURE

Equipment:

- ✔ 1 beanbag per 3 students
- ✔ 4 cones
- ✔ Music and music player

Set-Up:

1. Create area boundaries with 4 cones.
2. Scatter groups of 3 students inside the activity area, each group with 1 beanbag.
3. One student is the engineer and holds the beanbag (remote control). The other two are robots and stand back-to-back.



TEACHING TIPS

- ✔ **Sheep Dogs:** If 1-2 sheep dogs can control large flocks of sheep, then you can herd small groups of kids. Be confident and speak clearly – they can smell fear.

Activity Procedures:

1. We're about to turn our afterschool program into a robotics lab! The student in your group with the beanbag (the remote control) is the engineer. The other two students are the robots. It's the engineer's job to keep the robots under control by tapping them on the shoulder to turn them right or left.
2. When the music starts, the robots will start to slowly march forward (each in opposite directions). Anytime a robot is blocked by a wall or another robot, she/he will march in place with her/his hands over her/his head. Robots must keep marching at all times (forward or in place).
3. Engineers will work to safely steer their robots by tapping them on the shoulders. When tapped, Robots will make a 90-degree turn. Engineers may not run; they will walk to their robots. Everyone freeze when the music stops.

Universal Design:

- ✔ Students play in pairs, rather than groups of 3.
- ✔ Use auditory cues and bright colored cones for boundary markers.

- ✔ **Get the Facts on Fat:** How can you make the switch from solid fats to healthy oils? Here's a couple of good swaps. 1) Choose fat-free or 1% low-fat milk instead of 2% reduced-fat or whole milk; 2) Whole-grain crackers instead of potato chips.