Botball Lesson Plan

Title: Turning the robot

Concept / Topic to Teach: Turning the robot in an arc and in place

Standards Addressed:

Goal:
By the end of this activity, students will be able to drive the robot in an arc and turn in place using mtp (move to position), mav (move at velocity).

Anticipatory Set:
This is important because basic movement commands are the simplest way to navigate a robot and form the foundation of more advanced techniques.

Time Required:

Required Materials: Computer with KISS-C, Demo bot, download cable

Activity Procedure:
1. Open KISS-IDE
   a. Target: CBCv2
   b. New Program
2. Watch Video
3. Try it out
   a. arc
   b. in place

Assessment:
Tape three sheets of paper on the table a set distance from each other, allow students to measure the distance, students must start the robot on the first sheet of paper, and drive onto the second sheet paper, and drive to and park on the third sheet.

Extension Activities:
Add additional sheets of paper, reduce paper size.
Elimination style competition.

(Use lesson 1 handout)