

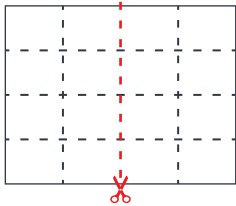


## Ozobot 3D CAD Library Lesson

# Race to Recycle

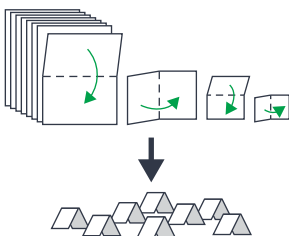
1 Take a sheet of paper from the recycling bin.

2



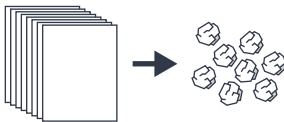
- ▶ Cut, or fold-and-tear, the sheet of paper in half.
- ▶ Cut, or fold-and-tear, each of the two halves into 8 equal pieces (16 pieces in all).

3



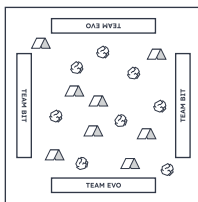
- ▶ Fold one of the small pieces in half four times, like the picture shows.
- ▶ Repeat this until you have 8 tiny paper tents.

4



- ▶ Crumple the last 8 small pieces of paper into paper balls about the size of the paper tents.

5



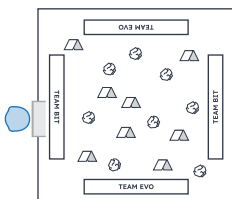
- ▶ Cut out, or fold-and-tear, the arena along the dashed line.
- ▶ Mix up and spread the tiny tents and crumpled paper balls around the inside of the arena.

6



- ▶ Create a new Ozobot Blockly program.
- ▶ Program Evo to:
  - move to the other side, pushing items out of the arena.
  - return to the original side before running the program again to push more items out of the arena.

7



- ▶ Clip the 3D printed dozer onto Evo and place it on a side to start.
- ▶ Test your program and fix any problems before competing against others.



## Ozobot 3D CAD Library Lesson

### Race to Recycle Arena

- ▶ Score a point for each item Evo pushes out of the arena (off the paper).
- ▶ Evo (and the program) can only be reset when it has returned to the side it started on.
- ▶ Evo's starting position may change but it must always start on the same side of the arena.

**TEAM EVO**

**TEAM BIT**

**TEAM BIT**

**TEAM EVO**