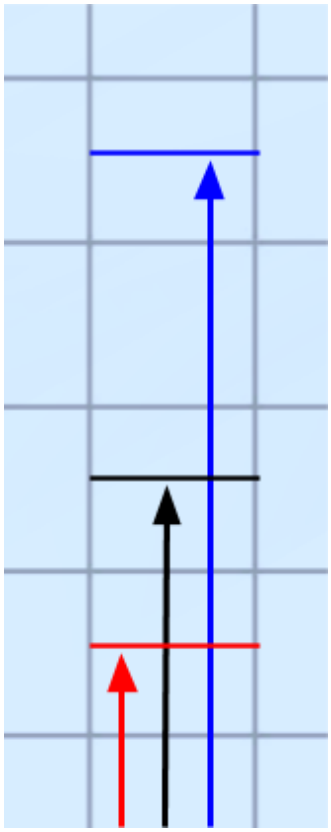
Want to make edits? Make a copy first! Learn more here.

VEX CODE VR Activities

Basketball Drills

Playground: Grid Map



Challenge:

Level 1: Program the VR Robot to drive forward 1 grid square. Next, program the VR robot to drive in reverse to the beginning point. Continue this pattern for 2 grid squares, then 4 grid squares.

Level 2: Program the VR Robot to drive forward 1 grid square, stop, and return back 1 grid square to where the VR Robot started **without** using the reverse block. The VR Robot will need to turn around to drive back to the first position. Continue this pattern for 2 grid squares, then 4 grid squares.

Level 3: Build an algorithm (a process or set of rules) to move through all 1 to 8 grid squares in sequential order. The VR Robot should move to 1, go back to start, move to 2, go back to start. Continue this pattern for all 8 grid squares.

Helpful Hints:

- Each square in the Grid Map measures 200mm by 200mm.
- Want to make your project shorter? Try using the *Repeat* block from the Control category.

  - Matching Python command:

```
for repeat_count in range(10):
```