

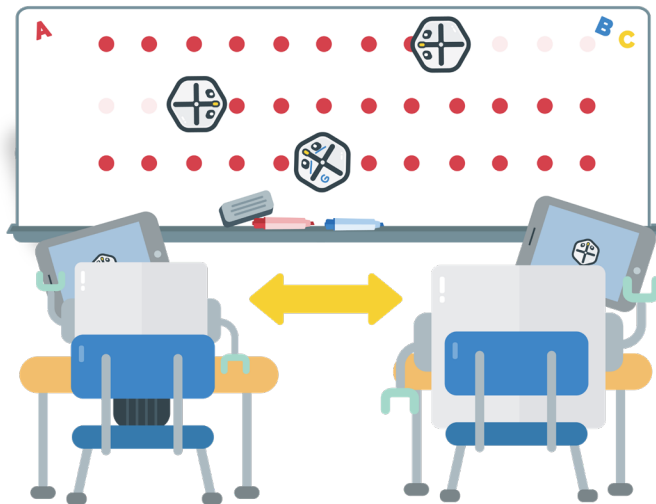
# Avoid the Ghosts

In this coding challenge, students will work together to clear the board and avoid getting tagged by the Ghost Team!

## Teacher Prep

### Robot Station

- Place each of your Root rt1 Coding Robots on your magnetic, wall-mounted whiteboard
- Turn each of the robots on, so that they are ready for students to connect to their coding devices.
- Using a dry erase marker, cover your board with a series of dots in rows.



## With the Class

1. Divide your class into two teams: the “cleaners” and the “ghosts.”

- \* The cleaner team’s goal is to clear the board of all the dots before they are tagged (and subsequently frozen) by a ghost.
- \* The ghost team’s goal is to chase and tag the cleaners before they are able to clear all of the dots.

### Subject(s):

Coding / Robotics  
SEL: Communication

### Experience Level:

Beginner

### Time:

15-20 mins

### Group Size:

Full-class activity

### Supplies:

Root rt1 Coding Robot  
iRobot Coding App  
Coding Devices  
Magnetic Whiteboard  
Dry-Erase Marker

2. Allow your students to remotely connect to the robots on the board.

- \* If you have more students than robots, students can take turns connecting and disconnecting with the Roots, all remotely, in between rounds.

3. Challenge students on the “cleaner team” to work together to code their Root Robots to wipe the entire board clear of all the dots using their robot erasers.

- \* TIP: You can find the Eraser Code Block by editing the Marker Block
- \* Make sure to give the cleaner team a 30 second head start ahead of the ghost team!

4. Challenge students on the “ghost team” to work together to chase down and tag/“freeze” the robots on the cleaner team before all the dots have disappeared.

- \* When a ghost robot bumps into a cleaner robot, it qualifies as a tag/freeze.
- \* Once tagged/“frozen”, the cleaner robot is either kicked off of the board or needs to stay still for 30 seconds.

5. Play multiple rounds with your classroom! Which team will emerge victorious?!

## Extensions

### Invisible Ghosts

- Challenge the ghost team to try turning around in their seats so they are unable to see the whiteboard.

### Automatic Ghosts

- Challenge the ghost team to code their robots to drive around the board autonomously. They can only press Play once!