

Coral Reef Cleanup



Code your VR Ocean Cleaning Robot to collect as much trash as possible from the Mangrove Reef before the battery runs out!

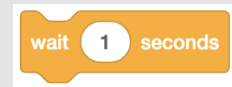
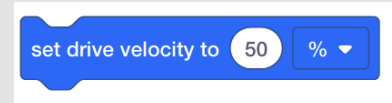
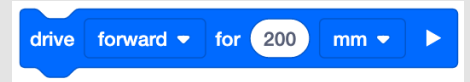
Key Information:

- The VR Robot is equipped with a solar charger and a battery.
- The battery's charge only lasts a few minutes. You must collect as much trash as possible before the battery drains completely.
 - Remaining battery life, along with the total trash collected in kilograms, is shown at the bottom left of the Playground.
- The VR Robot has sensors that can be used to monitor its location and to detect trash.
- The VR Robot must not collide with the coral reef. If it does, the mission will immediately end.



Reminders & VEXcode VR Tips

- **Blocks** – Use Drivetrain blocks to code your robot to complete the challenge.
 - [Drive for] - drives the robot forward or in reverse for a specified distance
 - [Turn for] - turns the robot right or left for a specified distance
- **Balance speed with battery life** – Driving faster drains the battery on the robot more quickly.
 - [Set drive velocity] - sets the speed of the Drivetrain
- **Try waiting** – More trash falls to the floor the longer your robot is running.
 - Try adding a [Wait] block to your project to make the robot wait for more trash to fall.
- **Use a sensor** – The VR Ocean Cleaning Robot is equipped with multiple sensors to detect trash and the blue border around the coral reef.
 - Try using a [Wait until] block with a sensor to make the robot drive until the Eye Sensor detects trash.



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