Lesson

RECYCLEBOT

CREATED BY

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TOPICS

Robotics, Programming, Earth Science

AGES

Grades K-5

METHOD

Color Codes

DURATION

30-45 minutes

RECYLEbot™

Students will use previous knowledge of Ozobots and OzoCodes to program RECYCLEbot to pick up recyclables and deliver them to the recycle bin.

Grade Levels: K, 1, 2, 3, 4, 5

Duration: 30-45 min

Materials: OzoBot (1.0 or higher), markers, printable course templates, scissors & tape (optional)

Objective: Help RECYCLEbot pick up recyclable trash while staying away from the landfill and garbage truck !

Prerequisites: Knowledge of how OzoCodes work

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RECYCLEbot™

Your Mission:

Help RECYCLEbot pick up recyclable materials around town, and deliver them to the recycle bin before the recycle truck comes.

You must program RECYCLEbot to:

Avoid the landfill and garbage truck

Stop at each recyclable to pick it up

Get to the recycle bin before the recycle truck arrives !

Use your OzoCode cheat sheet, and printed course template, to complete your mission.

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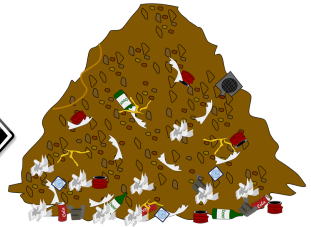
Start →

Hurry ! Time is running out !



Almost there ! Quick, the truck is coming !

Help RECYLCEbot collect all the recyclable materials, and get them to the recycle bin before the recycle truck arrives ! Pause at each recyclable item to pick it up, but be sure to stay away from the landfill and garbage truck !

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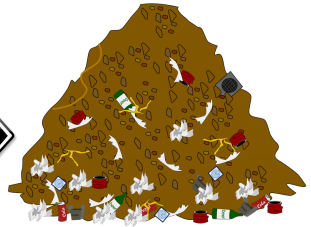
Start →

Hurry ! The recycle truck is coming !



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Help RECYLCEbot collect all the recyclable materials, and get them to the recycle bin before the recycle truck arrives ! Pause at each recyclable item to pick it up, but be sure to stay away from the landfill and garbage truck !

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OzoCode
Cheat Sheet

turn left

turn right

pause (3sec)

fast

turbo

nitro boost

win/exit
(game over)

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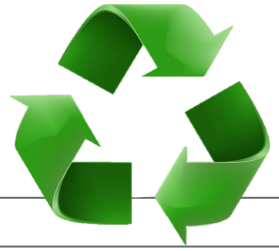
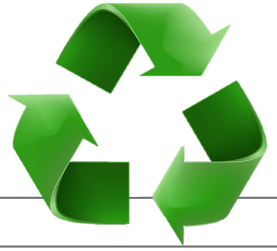
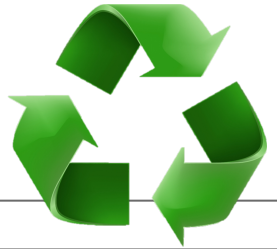
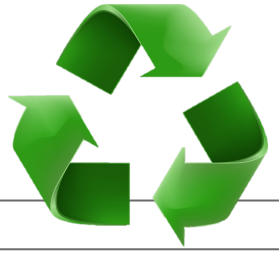
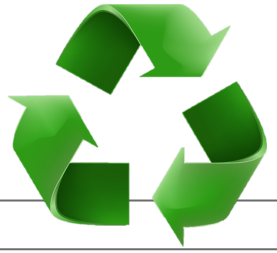
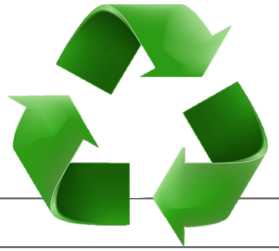
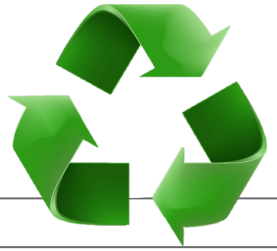
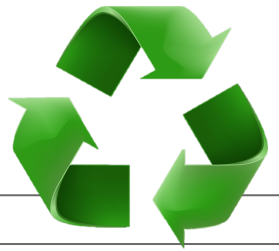
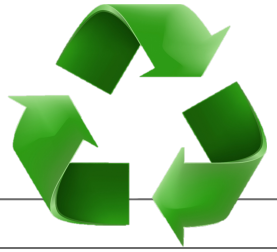
Optional Resources

-RECYCLEbot costume

-Blank template for students to draw their own recyclable materials and/or make up their own course

*Additional ideas: make 3D pop-up items for the course

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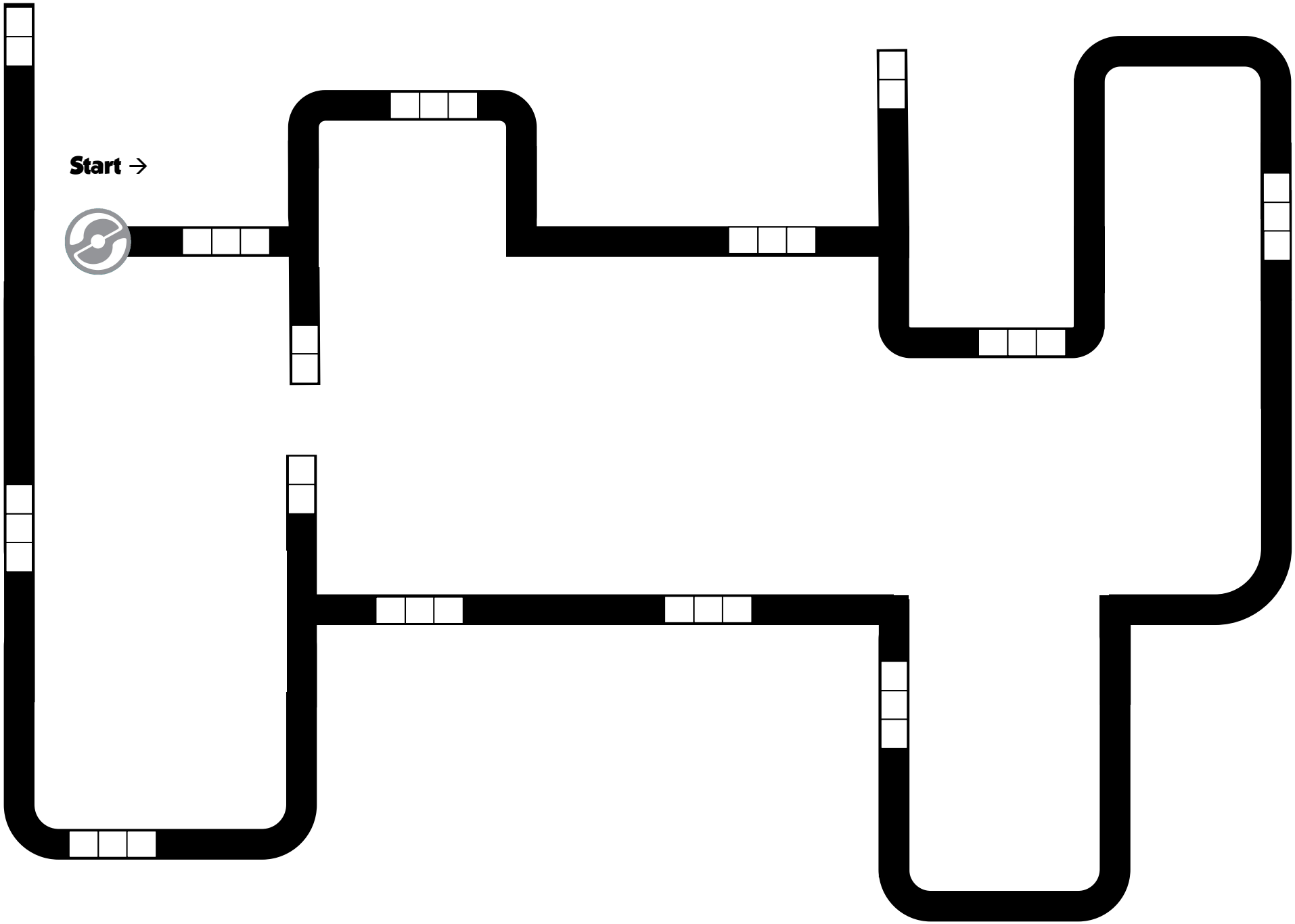

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Questions?

Please feel free to contact me with any questions or lesson suggestions !

Valley Preparatory School

STEAM

Promoting a Global Understanding

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Use the hashtags #RECYCLEbot & #OzoNation to share photos of your students on social media !

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