

Exploring Block-Coding using Ozobots

Gr. 7 - Understanding Structures & Mechanisms: Form & Function

Teaching Block-Coding Information

Step-by-Step

Getting to Know your Ozobot	• Review - website/video: https://youtu.be/0K8UytImfIw
Block-Coding	 Use this video: https://youtu.be/uRsFoAX4rGA Note: Accessible use of the tutorial / help: Immunication of the tutorial of the tutorial of the tutorial is a solution of the tutorial of the tutorial is a solution of the tutorial of tutorial of the tutorial of tuto
Handouts	• Ozobot Educators Guide: <u>https://files.ozobot.com/stem-</u> education/ozobot-educators-guide.pdf



Teacher Block-Code Examples

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Movement	Notes/ Diagrams
Reflex Angle	 → move forward < distance 10 steps < speed medium rotate slight right → move forward distance 10 steps speed medium
65° Angle	Follow line to next intersection or line end pick direction: right Combine the use of colour-coding & protractors
Bisected Angle	follow line to next intersection or line end follow line to next intersection or line end pick direction: left Combine the use of colour-coding & protractors
Shell Structure	C small circle slow forward right 3 seconds
Solid Structure	 move forward distance 3 steps speed medium rotate right move forward distance 3 steps speed medium rotate right move forward distance 3 steps speed medium rotate right move forward distance 3 steps speed medium



SUDBURY, ONTARIO, CANADA

Frame Structure	
	ortate right
	move forward distance 4 steps speed medium -
	rotate right
	move forward distance 10 steps speed medium
	rotate right
	move forward distance 2 steps speed medium distance
	VV zigzag slow
Area = 25 cm^2	
25011	move forward distance 5 steps speed medium
	ortate left
	move forward - distance 5 steps - speed medium -
	ortate left
	move forward distance 5 steps speed medium
	orotate left ·
	move forward - distance 5 steps - speed medium -