



ACTIVITY

Geometry Task Cards II

CREATED BY

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TOPICS

Robotics, Technology, Mathematics

AGES

Grades 6-12

METHOD

Color Codes

DURATION

60-90 Minutes

Geometry Ozobot Challenge 2

Inspired by the Original Geometry Ozobot Challenge by Erin Wilson available from the Ozobot site.

Student Directions: Pick a task card and follow all directions to create the path. Make sure the Ozobot path contains the specified vocabulary terms, content, and codes. After you complete it, get another task card and follow the directions. Can you complete the most tasks in the class?!?!?

Materials needed: Ozobot, markers, code reference chart, task cards, chart paper (for them to do multiple on you may also use regular blank paper), blank templates for codes if desired may get them here for free:

<https://www.teacherspayteachers.com/Product/Ozobot-Practice-Sheets-3128004>

Teacher Set Up: you can either make a set of task cards for each group or a class set that they can take one of at a time. There are higher level concepts but it includes all the TEKS below across a number of grade levels. Please review all the cards to make sure they will work for your grade level. The original Geometry Challenge has all elementary/middle school concepts and might work better for you! I'm using it as an intro to our Geometry unit in a high school level course so they may review all the concepts and vocabulary.

Texas TEKS: 4.5D, 4.6A, 4.6C, 4.6D, 5.4H, 6.8A, 6.8D, 7.5C, 7.9B, G5.B, G6.C, G7.A

Ozobot Challenge #1

Create an Ozobot path that is a rectangle with an area of 40cm^2 .

Include codes: turbo and spin.

Ozobot Challenge #2

Create an Ozobot path that is a triangle with an obtuse angle.

Include codes: U-turn and pause.

Ozobot Challenge #3

Create an Ozobot path that is a rectangle with a perimeter of 40cm .

Include codes: snail dose and fast.

Ozobot Challenge #4

Create an Ozobot path that has two rays that form an acute angle.

Include codes: U-turn and tornado.

Ozobot Challenge #5

Create an Ozobot path that has two angles that are supplementary.

Include codes: spin and nitro boost.

Ozobot Challenge #6

Create an Ozobot path that has two angles that are complementary.

Include codes: pause and flash red.

Ozobot Challenge #7

Create an Ozobot map that is two adjacent angles with one being obtuse.

Include codes: slow and spin.

Ozobot Challenge #8

Create an Ozobot path that has two vertical angles.

Include codes: pause and tornado.

Ozobot Challenge #9

Create an Ozobot path that is a circle with a radius of 6cm.

Include codes: pause and spin.

Ozobot Challenge #10

Create an Ozobot path that includes a line segment with endpoints M and A.

Include codes: spin and flash green.

Ozobot Challenge #11

Create an Ozobot path that includes a bisected angle.

Include codes: U-turn and pause.

Ozobot Challenge #12

Create an Ozobot path that includes intersecting lines.

Include codes: fast and flash red.

Ozobot Challenge #13

Create an Ozobot path that has parallel lines.

Include codes: line jump and pause.

Ozobot Challenge #14

Create an Ozobot path that has perpendicular lines.

Include codes: flash red and flash green.

Ozobot Challenge #15

Create an Ozobot path that is a right triangle.

Include codes: spin and fast.

Ozobot Challenge #16

Create an Ozobot path that is an equilateral triangle.

Include code: tornado.

Ozobot Challenge #17

Create an Ozobot path of two rays that form an obtuse angle.

Include code: U-turn.

Ozobot Challenge #18

Create an Ozobot path that is a parallelogram.

Include codes: flash red and zig-zag.

Ozobot Challenge #19

Create an Ozobot path that includes 2 line segments added together to equal 26cm.

Include code: zig-zag.

Ozobot Challenge #20

Create an Ozobot path that includes 2 congruent line segments.

Include codes: flash red and pause.

Ozobot Challenge #21

Create an Ozobot path of two similar circles connected together.

Include codes: zig-zag and flash green.

Ozobot Challenge #22

Create an Ozobot path that is two similar squares connected together.

Include codes: snail dose and pause.

Ozobot Challenge #23

Create an Ozobot path that includes congruent triangles connected together.

Include code: tornado.

Ozobot Challenge #24

Create an Ozobot path that has a triangle with an area of 30cm.

Include codes: fast and pause.