

Name(s): _____ Hour: _____

OZOBOT Line Challenge

Criteria

Create a track for your ozobot that includes the following:

MATH Requirements

- Has a **minimum of 6** line segments
- **ALL** Line segments must be **CLEARLY LABELED** with **Points** and **Length** (ie number of units long on the graph paper)
- There can be **NO** diagonal lines, all lines must be horizontal/vertical on the grid paper.
- One **line segment must be EXACTLY 12 units long**
- One **line segment must be LESS THAN 8 units long**
- At least **ONE intersection happens not at a corner** (and is labeled properly)
- Make **at least 1 ray**, but use a code so that the bot doesn't drive and dead end at the end.

Ozobot Requirements

- At least **4 different codes** are used from the codesheet (if the Ozobot does not always perform the code)
- Use any of the following Ozocodes:
 - Speed (any)
 - Cool Moves (any)
 - U Turn (both)
 - Line Jump (all 3)
- The track does not dead end (a U-turn may be used at a line end)
- The ozobot does not go off the paper
- Your final track **MUST** be on graph paper
- All roads are drawn in black marker
- Only use colored marker to code the robot

List of Line Segments and Length

EX: KL = 12 units

Name any additional rays/lines/etc.

Your graph paper is a plane - name the plane 3 different ways

Summary Questions: Answer below

- Describe the journey your ozobot took.
- What codes does he perform?
- Did your codes work every time? What did you do to improve the track when the code didn't work?
- How did you have to be precise when completing this project?

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Expectations/Grading

EXPECTATION	SCORE
Meets all challenge criteria (see above)	/6
Mathematical Notation/Labels/Calculations are accurate.	/6
Organization, Neatness, Clarity: The track and codes are clear and neat. The paper is clean of doodles not relevant to the activity.	/2
Ozobot Project Summary	/2
TOTAL	/16

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TOTAL	/16
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