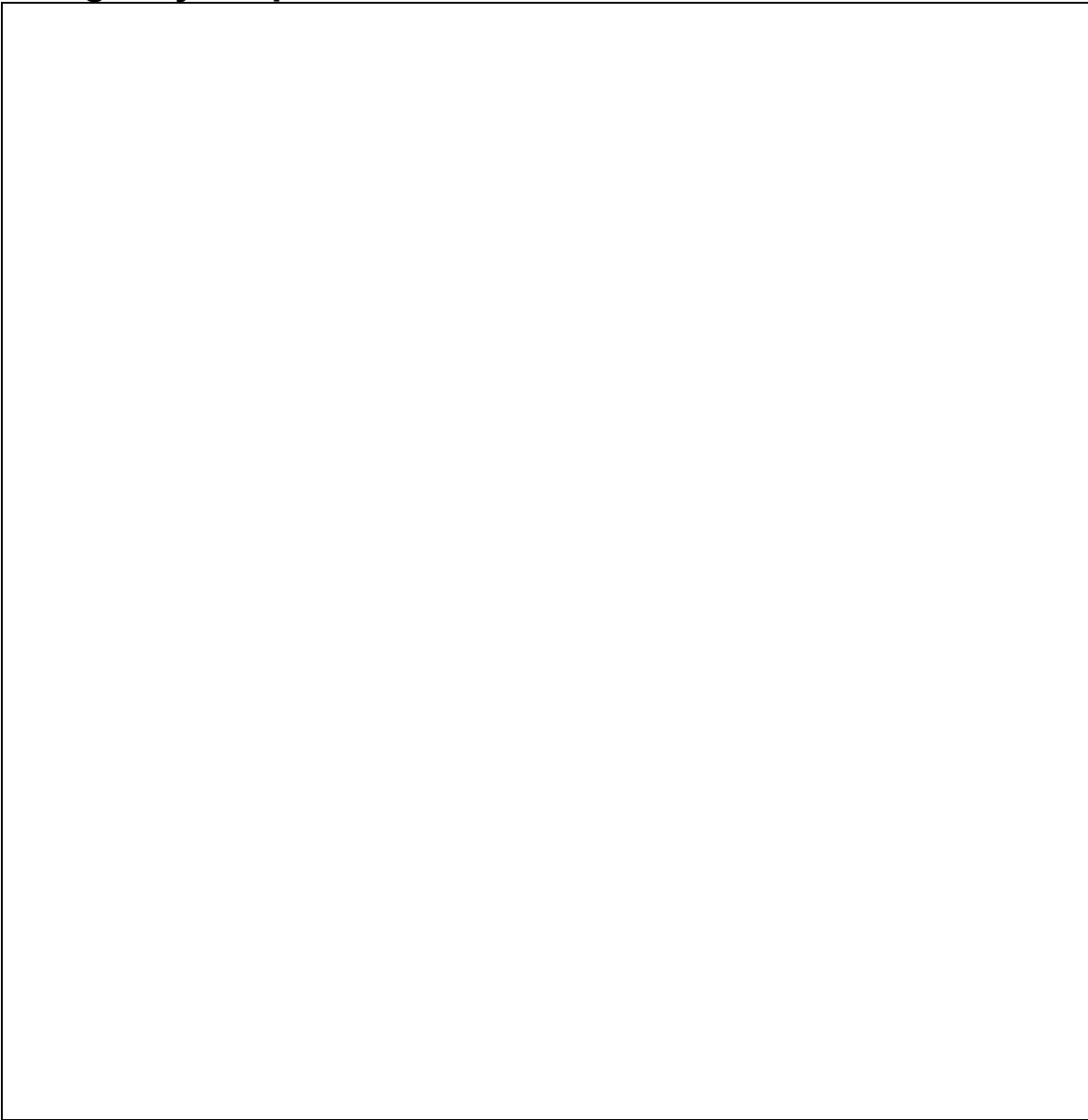


# Engineering Design Maglev System: Imagine

Brainstorm your plan here. Collaborate once everyone in your group completes their individual plan. Include;

- What does the maglev vehicle look like?
- How will you arrange the magnet poles to interact?
- Where will you place the magnets on the vehicle and the track?

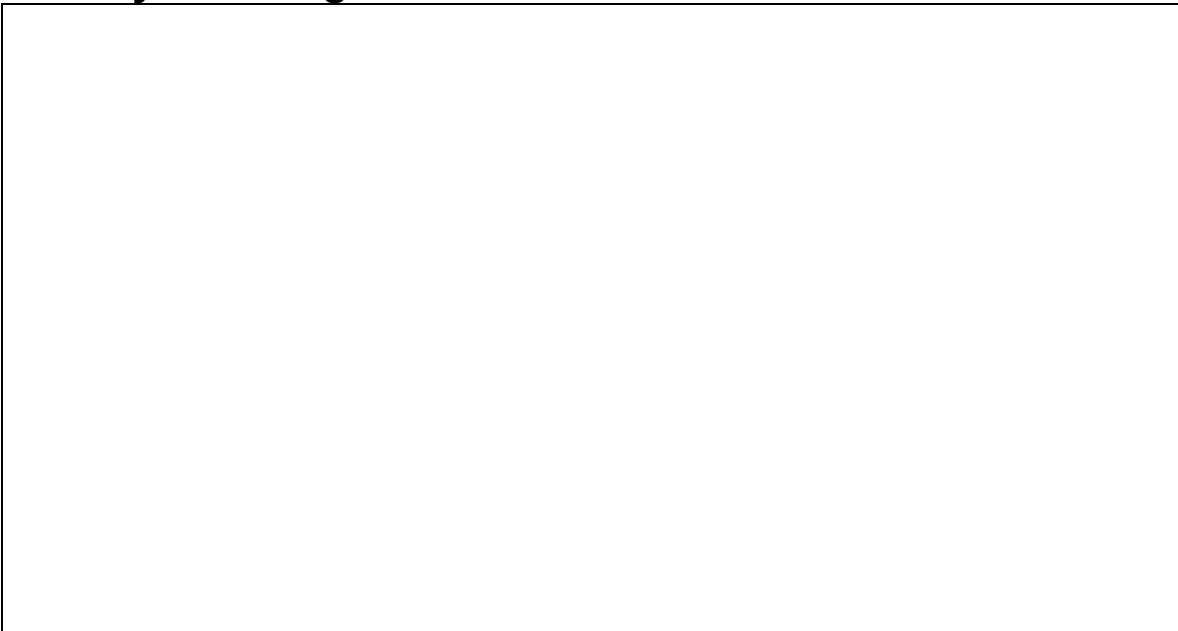
**Imagine your plan.**

A large, empty rectangular box with a thin black border, intended for students to draw and describe their maglev system design plan.

# Engineering Design Maglev System: Team Plan

- Explain your your design to your group
- Collaborate on one.

**Draw your design.**



*After you finish building, think about what worked and what didn't. Go around the group, what is one thing that went well.*

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*What is one thing you had a challenge from?*

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*Did your system transport weights safely? \_\_\_\_\_*

*How many weights did your system transport? \_\_\_\_\_*

# Engineering Design Maglev System: Improve

Make modifications and record your latest version.

*Did your system transport weights safely? \_\_\_\_\_*

*How many weights did your improved system transport? \_\_\_\_*

*How did you improve your system design? \_\_\_\_\_*

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*Were your improvements successful? How do you know?*

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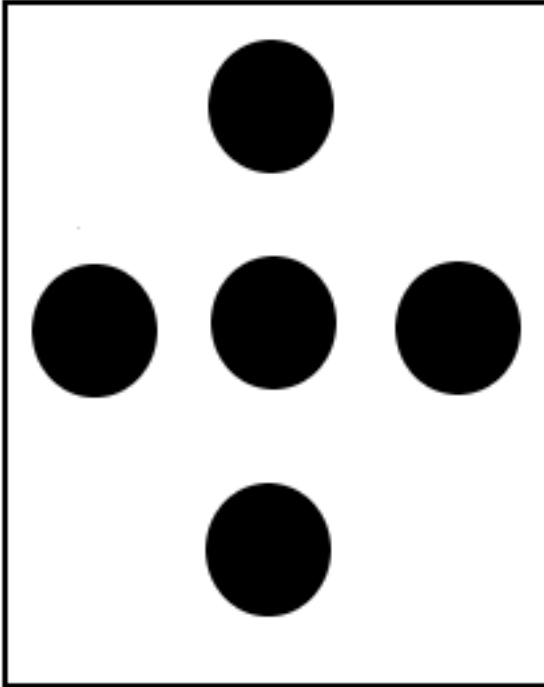
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*What parts of your system worked well? How do you know?*

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## Final Design Piece:



What is the effect of placing magnets like this on your maglev vehicle?

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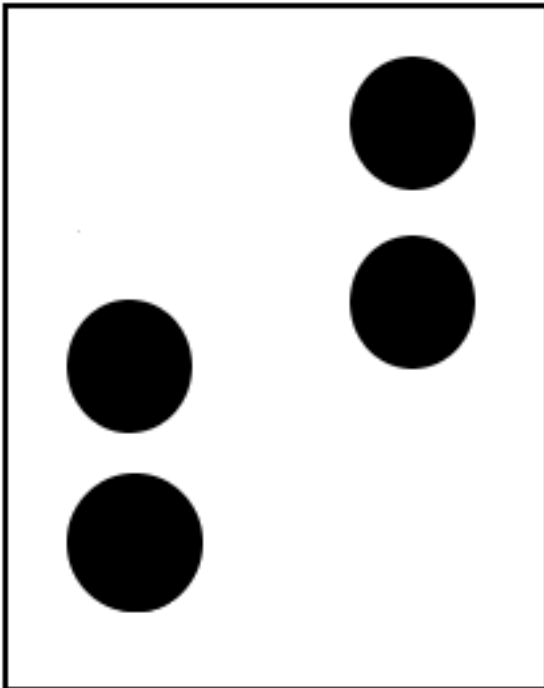
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Would this work? \_\_\_\_\_

Why or why not?

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What is the effect of placing magnets like this on your maglev vehicle?

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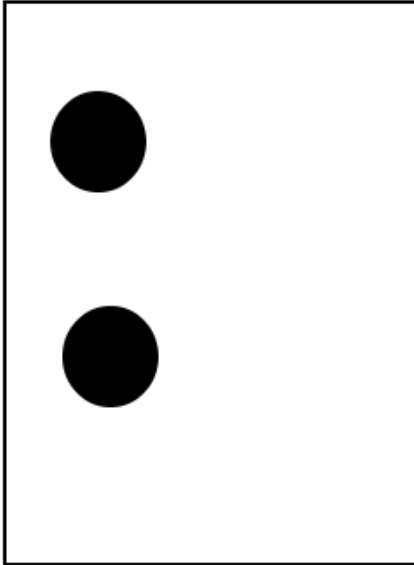
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Would this work? \_\_\_\_\_

Why or why not?

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What is the effect of placing magnets like this on your maglev vehicle?

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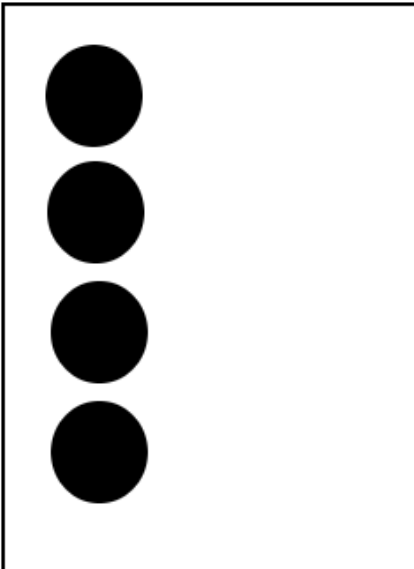
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Would this work? \_\_\_\_\_

Why or why not?

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What is the effect of placing magnets like this on your maglev vehicle?

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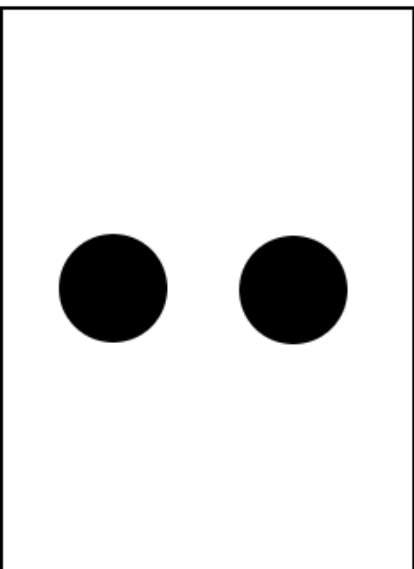
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Would this work? \_\_\_\_\_

Why or why not?

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What is the effect of placing magnets like this on your maglev vehicle?

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Would this work? \_\_\_\_\_

Why or why not?

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