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.
Engineering Design Maglev System: Team Plan

- Explain 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.

__________________________________________________________________________

__________________________________________________________________________

__________________________________________________________________________

What is one thing you had a challenge from?
__________________________________________________________________________

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? ______________
________________________________________________________________
________________________________________________________________
________________________________________________________________

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

What parts of your system worked well? How do you know?
________________________________________________________________
Final Design Piece:

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

________________________________________

________________________________________

Would this work? __________

Why or why not?

________________________________________

________________________________________

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

________________________________________

________________________________________

Would this work? __________

Why or why not?

________________________________________

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

_________________________________________________________

Would this work? ____________

Why or why not?

_________________________________________________________

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

_________________________________________________________

Would this work? ____________

Why or why not?

_________________________________________________________

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

_________________________________________________________

Would this work? ____________

Why or why not?

_________________________________________________________