

Name: _____

MAGNETIC LEVITATION

IDEAS & SKETCHES



Part 1: Specifications

- What materials do you have to build your maglev?
- What tools can you use?
- What is the size limitation?
- How many magnets can you use?

Part2: Brainstorm ideas for creating a maglev vehicle. Draw thumbnail sketches that communicate your ideas in the space below.

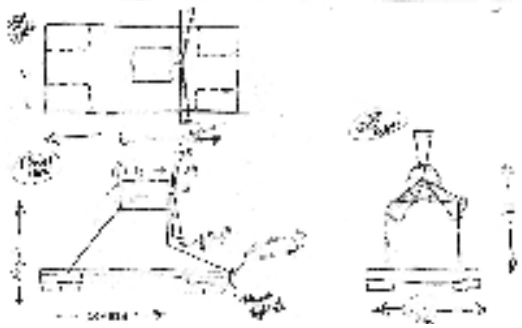
IDEA 1	IDEA 2	IDEA 3

Part 3: From the ideas you sketched above, think about the advantages and disadvantages of each design. List these in the space provided.

IDEA 1	IDEA 2	IDEA 3
Advantages 1. 2.	Advantages 1. 2.	Advantages 1. 2.
Disadvantages 1. 2.	Disadvantages 1. 2.	Disadvantages 1. 2.

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Part 4: Pick your favorite maglev idea from the sketches above, and draw what the maglev will look like from the front, top, and side view. Label important materials and dimensions.

	<p><i>Example:</i></p> 
Top View	Front View

Part 5: List the materials you need to construct your maglev below. Have your instructor approve your design to receive your materials.