DESIGN SHEET

What do we have to do for this challenge?

Standards we must meet

Maximum base length:

Maximum base width:

Maximum sail area:

How many different materials:

Step 2 Research the need or the problem

Fill out the Research Worksheet for homework

Use the back side of this sheet to do your research

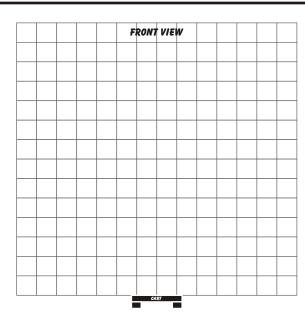
Step3 Develop possible solutions

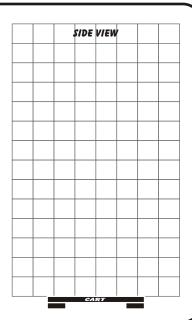
Sketch two designs for a Meg-Lev Racer below

Draw 2 possible solutions for the problem. Make sure you draw a front and a side view for each of your ideas

SKETCH 1

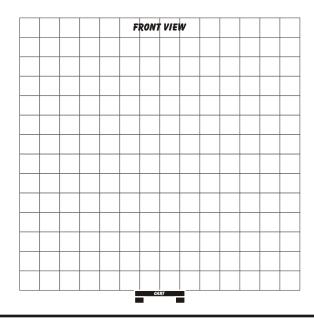
Each square = 1"





KETCH 2

Each square = 1"



SIDE	VIEW	,	
GA	RT		

FINAL DESIGNATION	CLASS: GN
Step 4 Select the best possible solution Include dimensions and the materials yo final design	Draw a final design of your racer below ou plan to use. SCALE: Each square = 1"
MATERIALS: Sail Frame: Mast: Area of the Sail (use formulas on Problem Step 5 Construct a prototype of your solution List the steps you took to construct your racer 1 2 3 4 5 Step 6 Test and evaluate your solution Place the vehicle on the track and list any problems	

	CLASS:
RE-DESIGN & EVA	LUATE
Step 7 Communicate the solution	Test your racer on the track with the fan on
Test your racer on the track several times and record Observations	d what happens List any problems you find
Step 8 Redesign and / or rebuild your solution	Fix your racer until it works perfectly
List the things that you changed on your racer	List the ways the changes effected your racer
Step 9 Evaluation What was the best improvement that you made to y	How did your racer perform?
What sail shape did you and your team finally decided to the spaces provided, draw what your final racer of	
	de on? Explain why you decided on that shape? design looked like and list the actual materials you used. SIDE VIEW