

Sumo Car Activity

Final Evaluation

Have Mr. French check the parameters of your vehicle first. (See 2nd page)

Final Design Journal

Your final design journal will be 40% of the grade for this Activity

Your finished design journal should include the following.

1. Cover sheet with your names, group names and car name
2. Any drawing you have done. Sketches, rough drawings, final drawings, CAD drawing etc.
3. Daily Notes (This section must be word processed and presented in a professional manner).

Include: Tools and machines used and for what purpose

Daily problems and solutions

Group discussions, conflicts, and resolutions

Materials/parts used and for what purpose

Research done: Internet, library

Transmission details (gears and ratio, pulley, etc.) why chosen advantages and disadvantage of that system

Digital Images

A detail explanation of how you did or what you observed at the competition. What would you do differently?

Be as detailed as possible when you put entries into your journal. Lists and shorts responses will not count unless they are detailed in another part of the journal.

Your Name \_\_\_\_\_  
\_\_\_\_\_

## Sumo Car Competition

### Criteria for Grading:

Name Your Group \_\_\_\_\_

Name Your Car \_\_\_\_\_

Car must be able to be moved forward, left, right and reverse under it's own power.

Car must have gearing (transmission) of at least one stage.

Ex: gears, pulley, worm gear, etc.

A complete design journal must be kept on a daily basis.

The design journal must include the following

1. Thumbnail drawings (originals)
2. Rough drawings
3. Final drawings  
Modification drawings
5. Daily notes (word processed and presented in a professional manner)
  - A. Daily problems
  - B. Daily solutions
  - C. Group discussions
  - D. List of tools and machines used and for what purpose
  - E. List of parts and materials used
  - F. Pictures (digital)
  - C. Research done

<u>Grade Percentage =</u>		<u>Your Grade</u>
Name of group:	2%	_____
Name of car:	2%	_____
Car is within MCC design parameters:	20%	_____
Car moves forward, left, right and back:	10%	_____
At least one stage transmission system:	10%	_____
Design Journal: 40%	_____	_____
Attitude! Cooperation etc	6%	_____
Safety and Clean Up	<u>10%</u>	_____
100%		_____