

Simple Machine Challenge 1

Names: _____ Class: _____

General rules:

- You may only use the items in your kit.
- No tape allowed!
- You may observe other groups and learn from their mistakes!

Challenge two: Using the LEGOs in your kit, build a 'car' which will carry your load as far as possible down a ramp and onto the floor. Your load and passenger must not fall off! Cars must stay in the 'runway' area in order to be measured.

Cars must have three or more wheels.

You cannot push the car to start it!

Cars must stay in the marked travel lane. Trial distance will be how far the car traveled in the lane.

If parts fall off the car on a run, the run will not be measured.

Task completion rubric:

The team made a car which rolls: Yes No

The car is strong enough to support the load: Yes No

Record each trial in this data grid (record more trials on the back):

Design 1 _____ cms

Design 2 _____ cms

Design 3 _____ cms

Design 4 _____ cms

Total improvement was _____ centimeters.