Design Using Sourced Parts

Part 1

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Early experiments in transportation

Massachusetts Institute of Technology
Custom vs. Sourced
Your Assignment

Design and build a stunt show using only sourced parts!

Events

1. Long Jump
2. Loop-Dee-Loop
3. Freestyle Stunt
Long Jump

We’ll bring a ramp…

...You bring a car

- Wheeled Vehicle
- Human Power (no human passengers)
- Stored Energy
- 24” Max Wheel Base
- 24” Max Height
- Ramp lip ~ 1/8”

Winner

Longest Jump
Loop-Dee-Loop

Use the long jump vehicle build your own loop

Winner
Largest successful loop
Freestyle Stunt

Create a uniquely awesome stunt featuring your vehicle

Winner
Judges’ Choice
Rules

1. $200 Budget per team
2. Only minor modifications on sourced parts are allowed (i.e. drilling holes, cutting length)
3. Stored human power only!! (No compressed air)
4. Parts must be shippable same day
5. Preferred Sources – McMaster, Amazon (Direct), Grainger
6. Designs and stunt plans must be approved by instructors
Steps

1. Name your team
2. 15-Minute brainstorm
3. Sketch your idea (including the parts)
4. Divide parts & source
5. Document all parts on order forms
6. Staple your sketch and order forms together – give to instructor when complete
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