

Challenge



You and your engineering partner are on opposite sides of the world, collaborating on the design and construction of Disneyland's newest roller coaster!



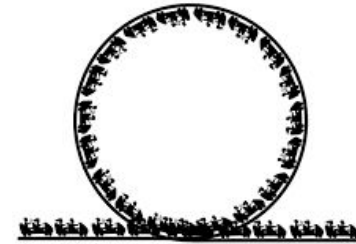
Constraints



1. Your device must be stable - meaning it must stand on its own



2. Your roller coaster must have at least one vertical loop



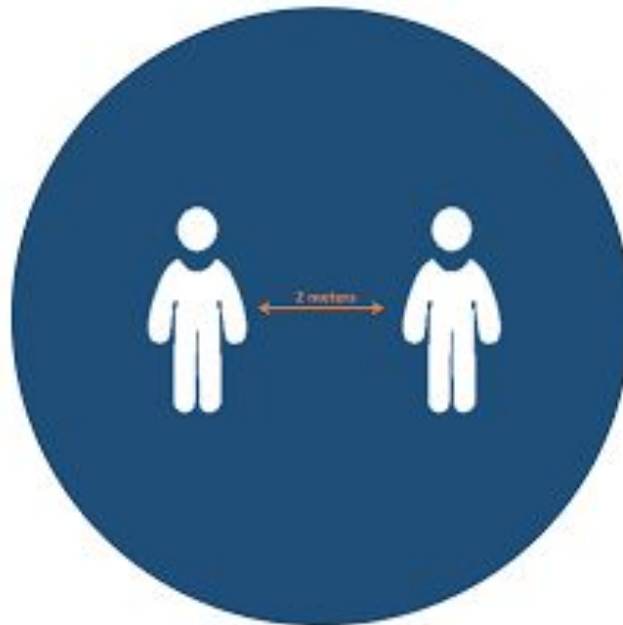
3. Your cart must go down the hill by the force of gravity alone - no pushing!



Constraints continued



4. Due to social distancing guidelines, only one engineer can be onsite at a time. You and your partner will need to take turns being physically present at the “work site” however you can still communicate from a distance.



Criteria



Criteria is an engineer's measure for success. Here is how we will know when our roller coasters are successful:

1. Your roller coaster must be reliable, meaning it must travel the entire length of the coaster without falling out at least 3 times in a row.



1. Your cart must end in the provided cup at the end of your track. This represents the end of the ride!



Reflection



With your team, discuss the following:

1. What actions did you and your partner do during course of the activity? *Write your keywords down on the **yellow** post-it notes*
2. What actions did the facilitator do during the course of the activity? *Write your keywords down on the **blue** post-it notes*

Innovation Design Process



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Where do you think your **yellow** post-its fit on this graphic?

Where do you think your **blue** post-its fit on this graphic?

Role of the Educator



Support the learner through the Innovation Design Process.

- Validate ideas and feelings
- Ask open ended questions
- Encourage
- Make the experience relevant

Build Innovator Mindsets

- Bold
- Curious
- Collaborative
- Empathetic
- Perseverant



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