

Name: _____

Date: _____

CHALLENGE

Using 2 of the 6 simple machines, construct a track that enables a vehicle to remain in motion for the longest amount of time using the materials provided.



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CONTEXT



“I can listen to others, ask questions, and/or find information on the challenge”

Questions I have:

EVIDENCE



Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I listen carefully to those sharing information
- I can ask questions to gain greater understanding
- I can do research to find more information if needed



Name: _____

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DEFINE



“I can ask questions to figure out what is needed and to set the criteria for the challenge.”

Criteria to complete this challenge:

EVIDENCE

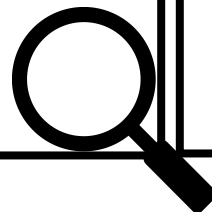


Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I ask questions that give me detailed information
- I can make good lists of what I need based on answers to my questions
- I know the materials, tools, time and space required for the challenge



Name: _____

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IDEATE



“I can come up with my own ideas and add to the ideas of others.”

My Ideas (*group management ideas, design ideas*)

EVIDENCE

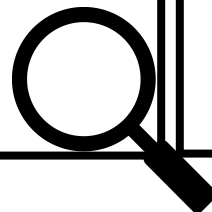


Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I listen to others
- I share ideas
- I build upon the ideas of others



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PROTOTYPE



“I can make a plan, and can keep a record of what I did with any changes I made.”

Some changes I made as I learned new things are...

EVIDENCE

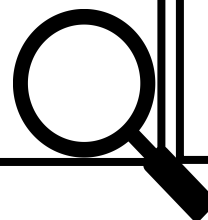


Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I have enough details that someone else could follow my plan
- I show changes I made as I learned things along the way
- I might have taken pictures of my steps



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TEST



“I can use what I learn from others, and myself, to make changes and try again.”

Things I learned along the way that made me change my plan:

EVIDENCE

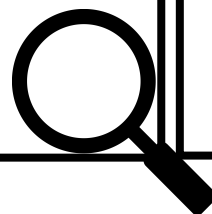


Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I asked more than one person for feedback
- I checked my prototype against the feedback
- I made changes where needed
- I recorded any changes I made



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MAKE



“I can make my product and include the changes I learned about in previous stages.”

Minor adjustments I made to my design:

I knew my design was complete when...

EVIDENCE

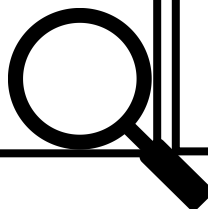


Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I completed my design
- If I had to make adjustments to my design, they were only minor
- My design/solution is able to perform its intended function



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SHARE



“I can communicate what works well, and what I would do next time.”

What went well?

What didn't go well?

What would I do differently next time?

EVIDENCE



Where to next?

How close are you to the target? MARK IT ON THE TARGET!

WHAT IT LOOKS LIKE:

- I am prepared to share my final product with one or with many
- I am able to concisely communicate what went well, what didn't go well, and what I'd do differently next time.

