

Name:

Grade 8, Electrical Engineering

Teacher: Mrs. Sri Sundaram

Capstone Project - Machine that uses the concept of circuits to achieve a job!

Points _____/20.

Time duration - 2 periods

Goal - To design and to build a device that uses the concept of complete circuit to help achieve a job.

Examples (List the examples as we discuss as a class. You have to list at least three examples here). - 2 points

Partner names:

Brainstorm - What are the ideas that you have as a team? List at least three ideas. Underline your choice and Explain why you chose it? (3 points)

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Draw your design here. Your design must be neatly drawn and labelled. (3 points)

Get your design approved and go ahead with building!

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Your participation and influence is very vital to me and other students (5 points)

- Paying attention and using zero voice while other students or the teacher is expressing ideas - 1
- Raising hand to share your ideas and questions - 1
- Using the supplies wisely and returning it back nicely to the teacher - 2
- Following directions at all times of the project - 1

Mistake Mechanic/ Success Strategist

We always approach our projects with a growth mindset. **Read** this, before you proceed further.

You have to answer only Option A or B.

Option A - this option should be chosen if your machine did not work the way you conceptualized

Wear the hat of a mistake mechanic. (Adopting a growth mindset approach in our STEM projects!)

Explain what do you think was the error in your machine design. (2)

What do you think you could do to fix your design? If you want to express ideas as diagrams, you are welcome to do so. But you have to label them to make me understand your thinking. (2)

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Option B - this option should be chosen if your machine did work the way you conceptualized.

Wear the hat of strategy mechanic. (Adopting a growth mindset approach in our STEM projects!)

Explain what you think as the successful strategy used in your design? (2)

If you have to further enhance your machine, what would you do? Why would you do that? If you want to express ideas as diagrams, you are welcome to do so. But you have to label them to make me understand your thinking. (2)

Presentation

Articulating your understanding of the design and the circuitry - 3 points