

Hello, Amanda Shaw

[Sign Out](#)

DRAGSTER_{2.0}

Start

- 1 Research
- 2 Engineering
- 3 Competition
- 4 Outputs
- 5 Build & Test

Unity Mode:

Plugin (not available)

WebGL

ENGINEERING

Blank/Setup

Blank/Setup

Body

Upper Profile

Lower Profile

Top Profile

Rough Solid

Shell Cavity

Refined Solid

Components

Front Axle

Front Bearing

Front Wheels

Rear Axle

Rear Bearing

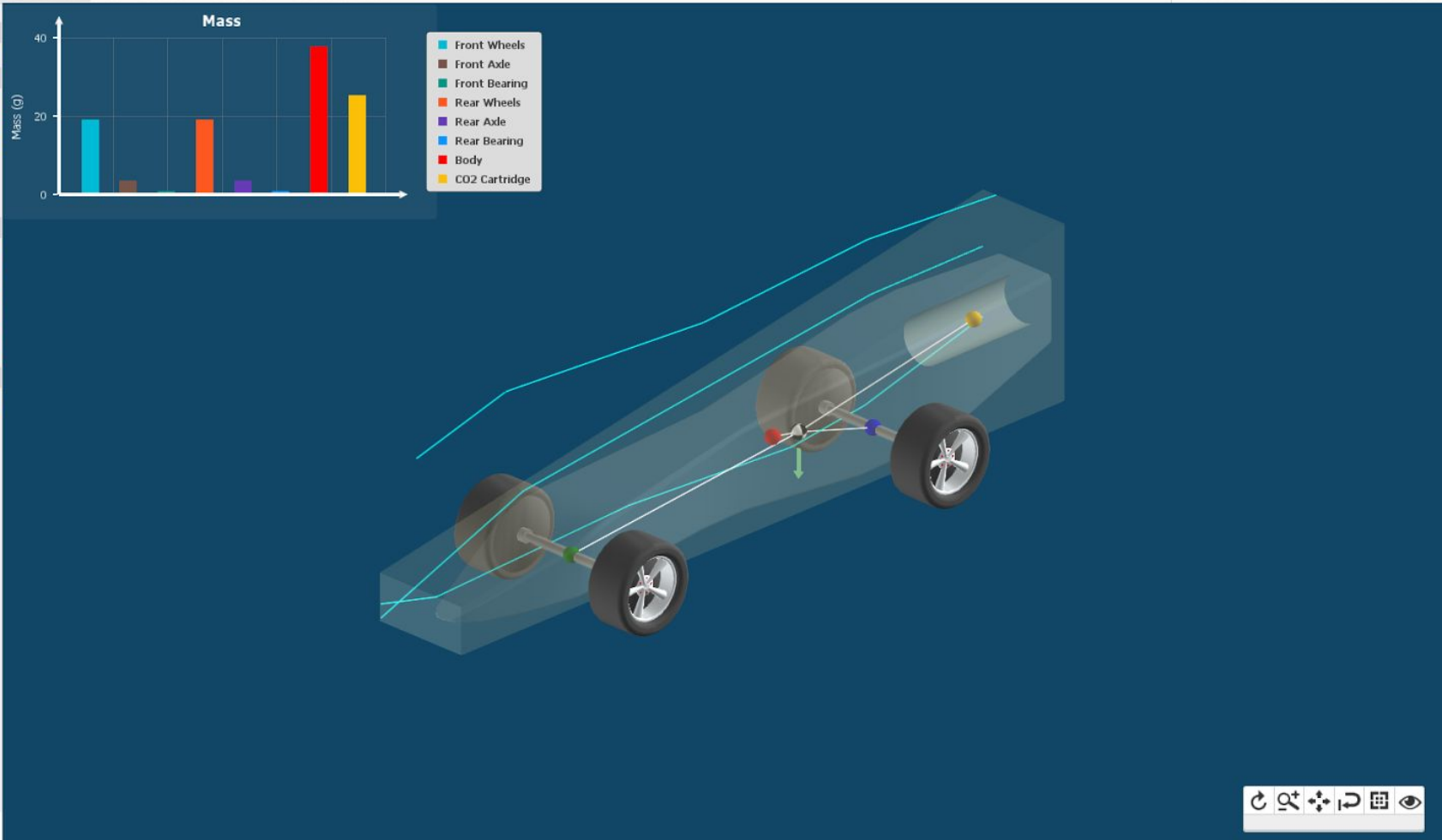
Rear Wheels

Analysis

Mass

Surface Friction

Drag



- JOURNAL
- Introduction
 - Design Challenge
 - Gradebook
 - Engineering Logs
 - Final Reflection

Design History

Show Design Summary

Design Concept: Q3 EQT Dragster (1)

Revision: < Prev 5 Next >

In Spec
 Out of Spec



Changelog

Notes

The surface friction graph showed that the rear axle and rear bearing components accounted for more than 80% of the surface friction in my dragster.

I began with looking at the type of bearing in my dragster. I switched the bearing in my car from a plastic straw to the Ultimate Axle Bushing.

After settling on the bearing that had the least surface friction, I switched to look at different options for my axle component (rear). I chose the axle component that had the least surface friction with my bearing. I switched the axle from steel to brass.

I wonder if different combinations of bearing and axle cause different levels of surface friction between them.


[Edit Notes](#)

Analysis/Diagnostics

| | | |
|------------------|---------|----|
| Mass | 49.63 | g |
| Surface Friction | 0.0122 | N |
| Drag | 0.4404 | N |
| Cost | 5.26 | \$ |
| Specifications | In Spec | |
| Time | 1.1253 | s |

[Edit Design Summary](#)

Design Summary

 Amanda Shaw
Mar 10



Whitebox


Due Mar 10


48 DONE | **50** NOT DONE

Use data to explain how you have improved your engineering design.

This assignment is for a major assessment grade. Remember to include all required parts of technical writing that we discussed in our lesson and in our student-teacher conferences. You will be graded using the same rubric we used in our writing conferences (attached below).

| | |
|---|--|
|  | Technical Writing Google Slides |
|  | Technical Writing Rubric Google Docs |


 Add class comment...

 Amanda Shaw
Mar 10

Bellwork

(Bellwork Week 9, Friday 3/10) What steps are important to include in technical writing? Why?

Remember to turn in your bell work today for a grade.

 Add class comment...

