

Announcements:

- Inflatable structures due WED. 10/26 (end of the day)

- ① No more class time
- ② Make arrangements to complete outside of class (make sure it has your names on it and bring it to us)

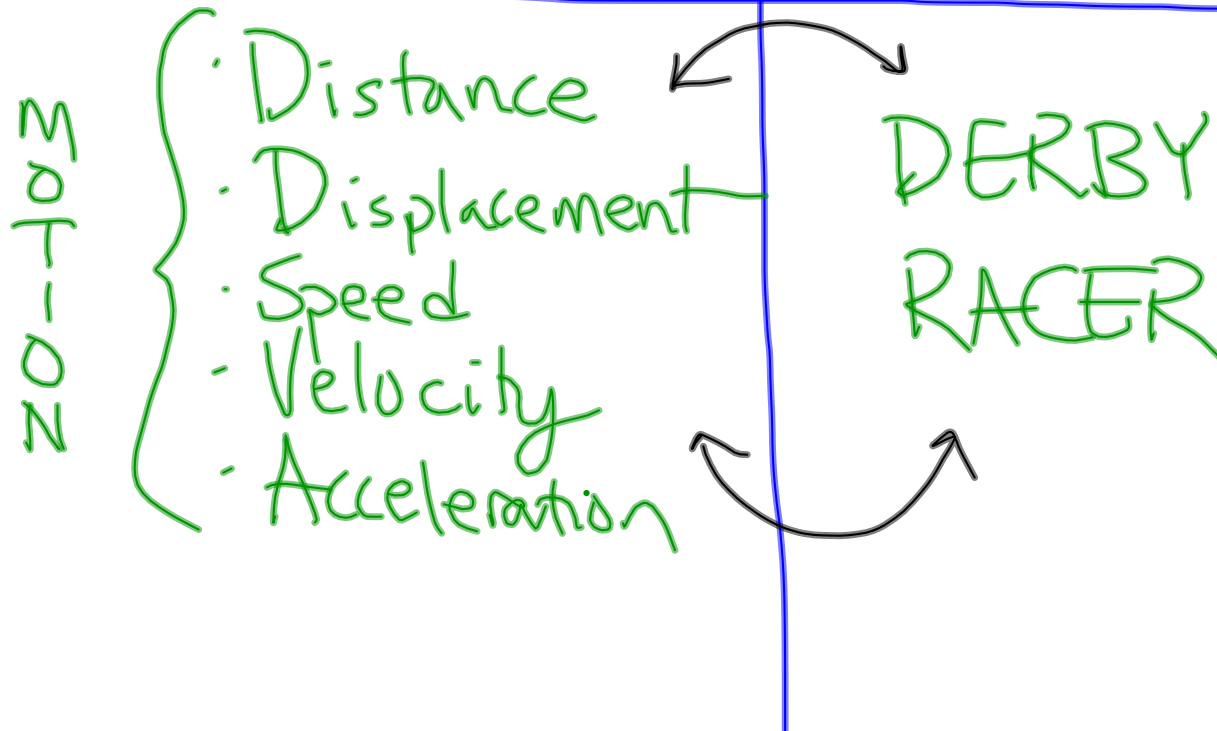
• Calculations for your structure
are extra credit (not required)

• Course syllabus and safety
contracts and safety glasses
are required

→ on the website
\$2 to bookkeeper
or bring your own

We'll be working on two things for the next several weeks:

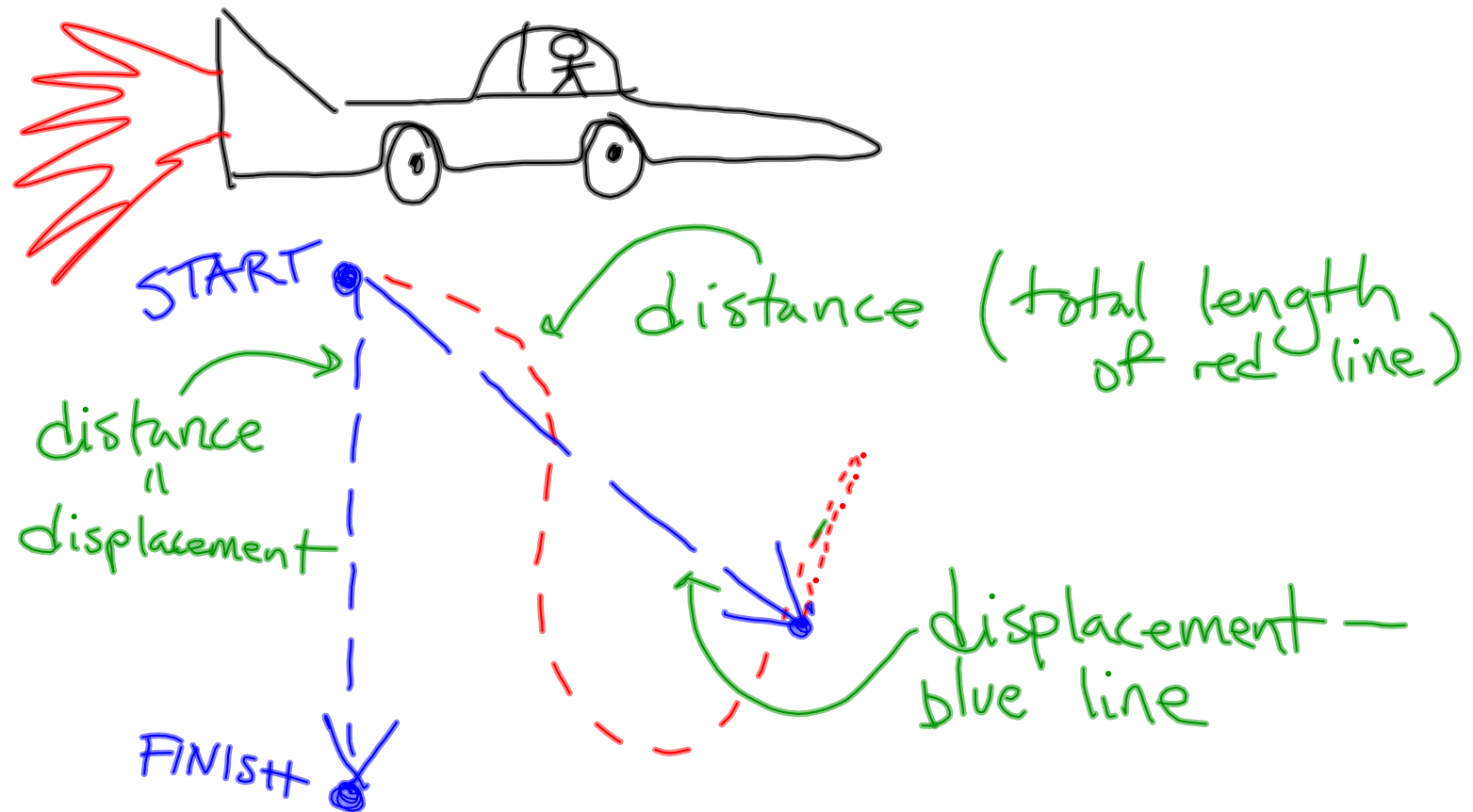
Scientific concepts	Design and build
<p>20-102</p> <ul style="list-style-type: none">DistanceDisplacementSpeedVelocityAcceleration	<p>DERBY RACER</p>

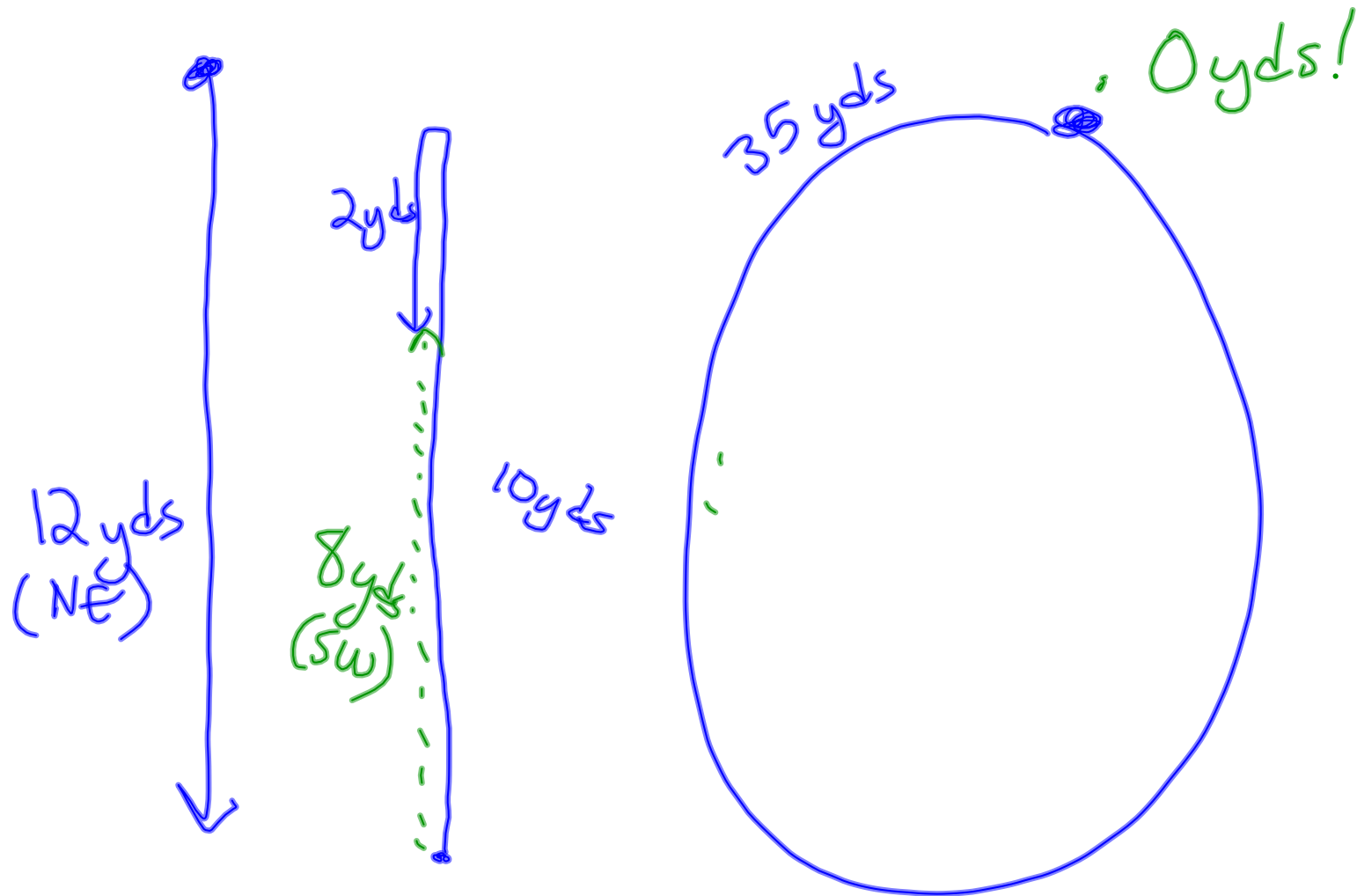


Basics of motion:

Motion refers to how the location of an object changes from its starting point

- Distance: The total length of the path taken by an object
- Displacement: The shortest distance between an object's starting point and ending point
INCLUDES
DIRECTION!





DERBY RACER:

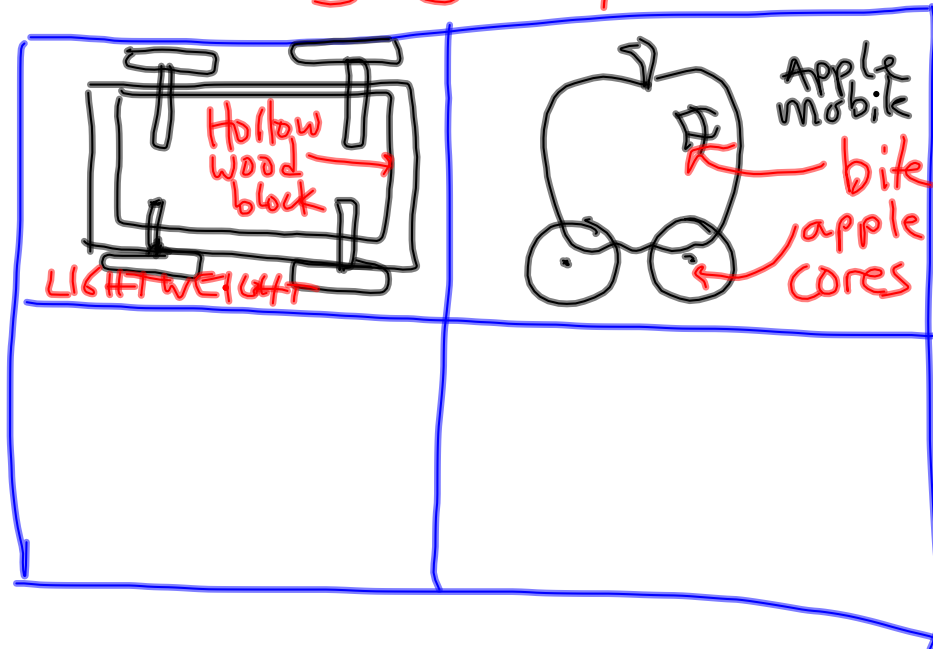
- Start as an individual project
- 25cm x 25cm x 25cm
- Chassis (wheels + axles + supporting structure) need to be made from materials we provide
- The top can be brought from home

- Grade will be determined by
 1. Appearance of effort
(quality of construction/
drawing)
 2. Function

TODAY:

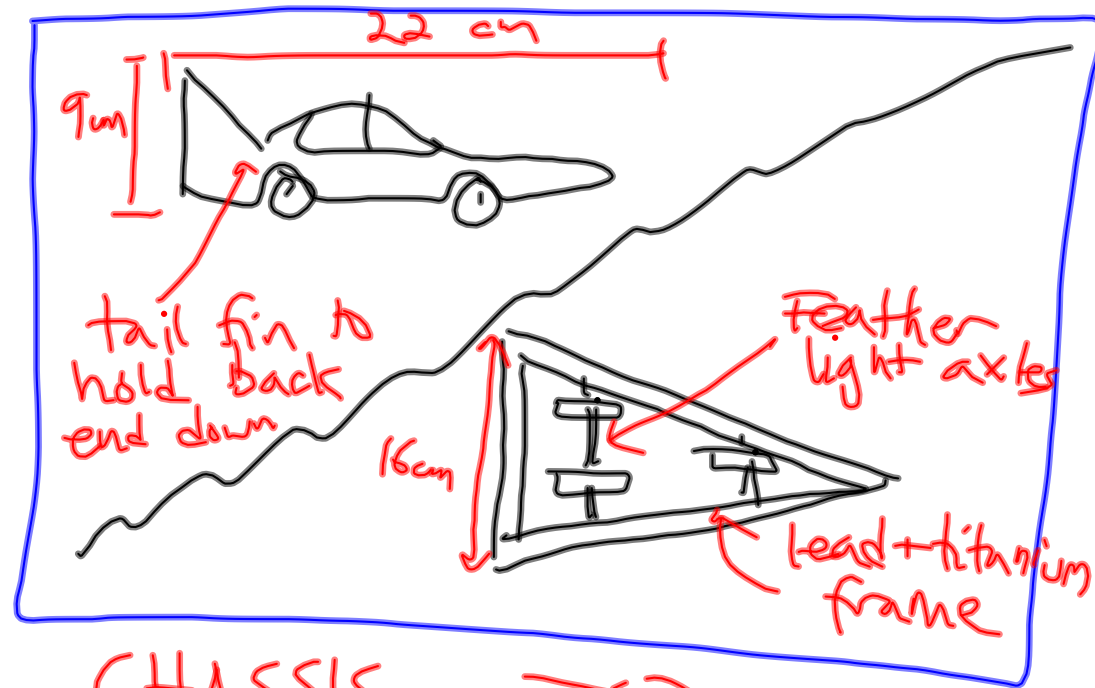
① 8 thumbnail sketches
3-5 min / sketch (~ 30 min.)

8.5" x
11"
(front and back)



② Pick your favorite design and make a detailed drawing

8.5 x
11"



CHASSIS + TOP