Science Fair/Olympics

Your mission, if you choose to accept it, is to become an engineer. You and your team need to build the best of the best. You have two choices ahead of you, do I build a war machine to take out the nearby castles **OR** do you build the fast of the fast, the super-fast racer. It does not matter what your choice is as long as you follow the steps to building the best final product. You need to draw up an outline of what needs to be done by when. What materials will you be using to build this project? Where are you going to get the materials from? Who needs to bring what? You need to draw up a plan (literally draw a model of your project). From there you need to build an initial model of your racer or trebuchet. Step by step you will build, test, record data and reconstruct your project record what you changed and retest, and so forth; so that it will become the best of the best.

Grade 8

Racer

- Must be self-propelled (no ramps this yr)
- Must build and modify at least 4 times
- Must have 5 different sets of data from modification

Launcher/Trebuchet

- Must build and modify at least 4 times
- Must have 5 different sets of data from modification
- No larger than size of desk
- Must be able to lock in place

Pieces of the Science Fair

• Outlined planned – Due WK1

Drawn plans of what your 1st design will look like - Due Wk1

• Materials List & who is responsible for what - Due WK1

Bring Materials
Due WK2 Sunday

Test 1 complete with data recorded - End of WK2 beginning WK3

Rebuild & retest record data #2 - WK 3
Rebuild & retest record data #3 - WK 4
Rebuild & retest + record data #4 - WK 4
Last Rebuild & retest + record data #5 - WK 5

• Compete - WK 5 May 15/14

Hand in
WK 6 Sunday May 18/14

 Check the attached Checklist that you have every aspect of your project complete

Photo of each rebuild (what was changed/modified) 5 total

ICT - Presentation/Video of Trials1 per group

What worked best

What didn't help

What could you change again

Math - Data collection
Math - Graphs to go with
English - Weekly Journal/BLOG
SS - Work Citied/ Research Project
1 per person
5 per person
1 per person