

Laws of Motion and Vocabulary

Summer Project

Specifications:

- **Must be a physical poster(s)**
- **Must be hand-written**
- **Must have at least one hand-drawn illustration**
- **Typed words/phrases/sentences are prohibited**

Pick 1 law from each of the following categories:

Laws Motion (almost all of Newton's laws – there are many)

Conservation Laws – The big 4 (or 3 if you are in quantum land)

For each law you pick:

1. Describe the law and its applications, identify important equations and the symbols used (minimum of 2 sources of information required and must be included) – 35 points
2. Brief biography of the scientists who helped formulate the law – 15 points
3. Describe real world examples of this law – 25 points
4. Add a picture/drawing/cartoon for this law – 15 points

The last 10 points are for your presentation and your attention during other presentations

Vocabulary Assignment:

This part can be done in any form you would like to use – Google Slides, poster, flash cards (4" x 6"), a long Google document, etc.

- Find the **most complete** description for each of these (phrases or bullet list is fine)
 - Use the term in two or more examples (use **complete sentence(s)** for your examples)
 - These are terms you will need to know and understand for the whole course
1. Scalar
 2. Vector

3. Displacement
4. Distance
5. Velocity
6. Speed
6. Acceleration
7. Force
8. Work/Energy
9. Momentum
10. Mass
11. Weight
12. Magnitude