

Unit 1 Part 1: Graphing and Rearranging Equations

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Physics S1



1) Watch flipped lesson and take notes.

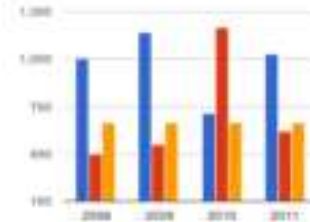
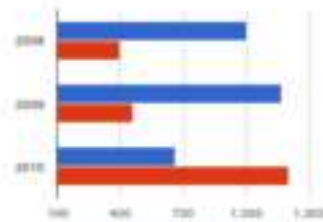
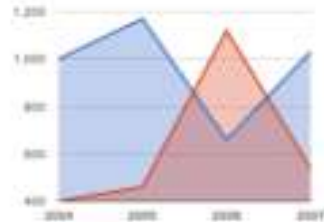
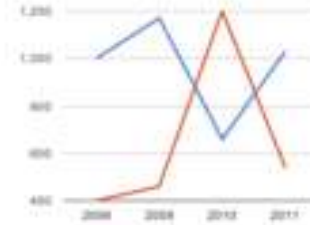
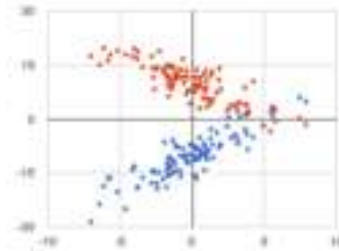
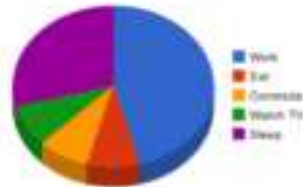
2) Remember you can pause, rewind and fast forward.

3) Complete the Google Form and press “DONE” on Google Classroom.

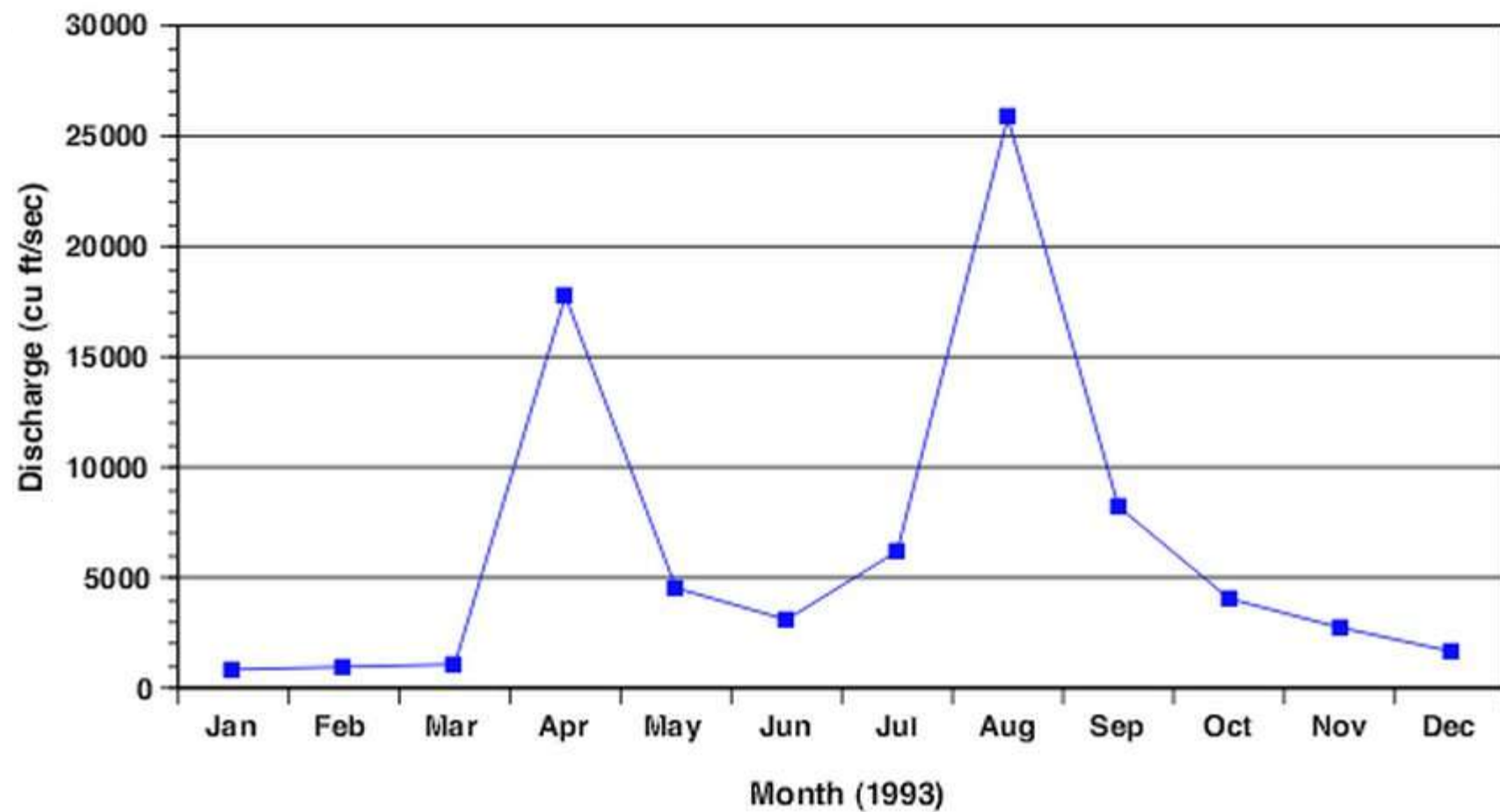




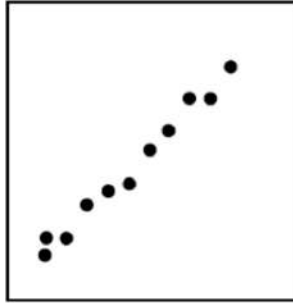
Types of Graphs



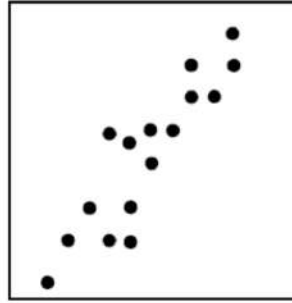
Red River Discharge Rate - Fargo Station



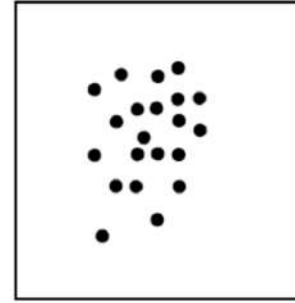
Graphing Correlations



Strong positive correlation



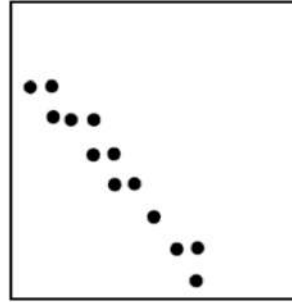
Moderate positive correlation



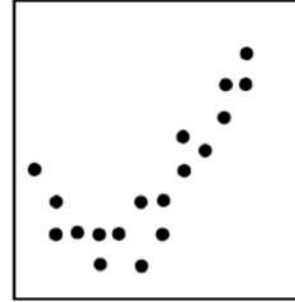
No correlation



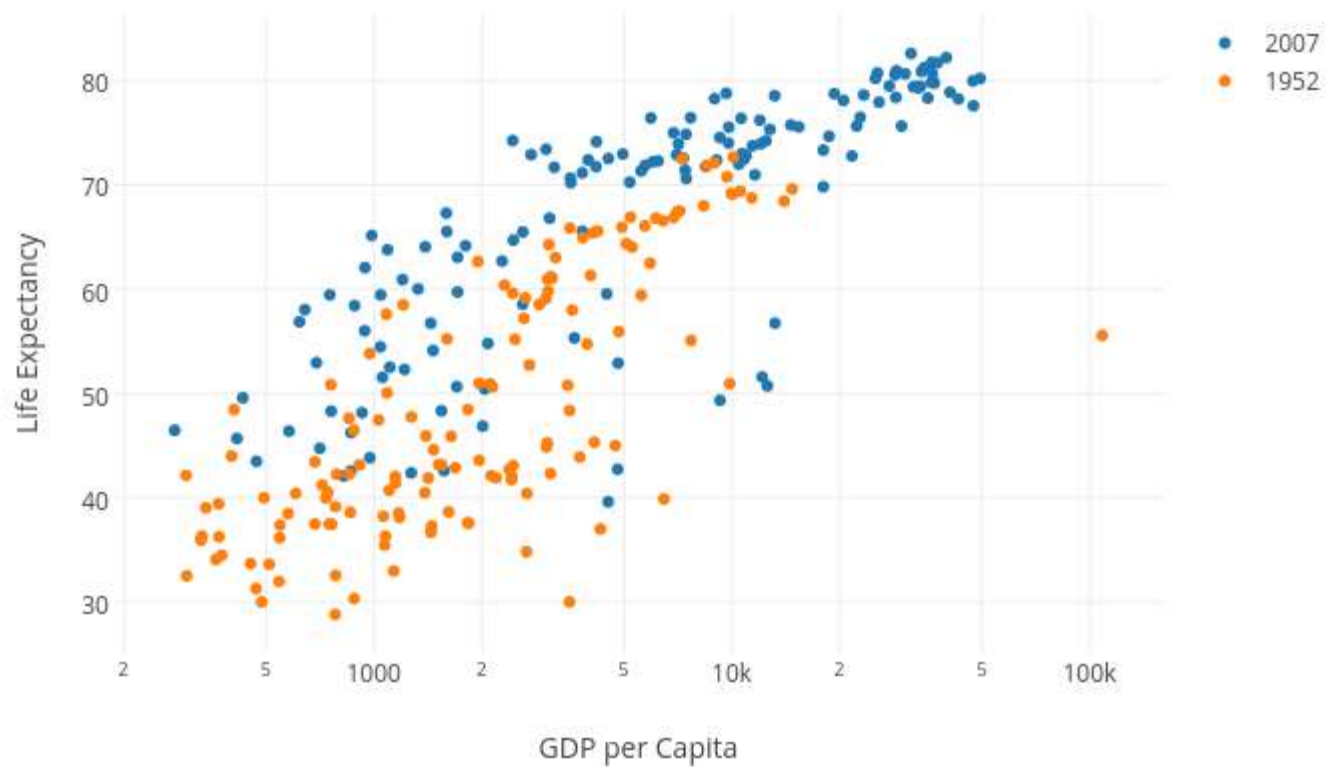
Moderate negative correlation



Strong negative correlation

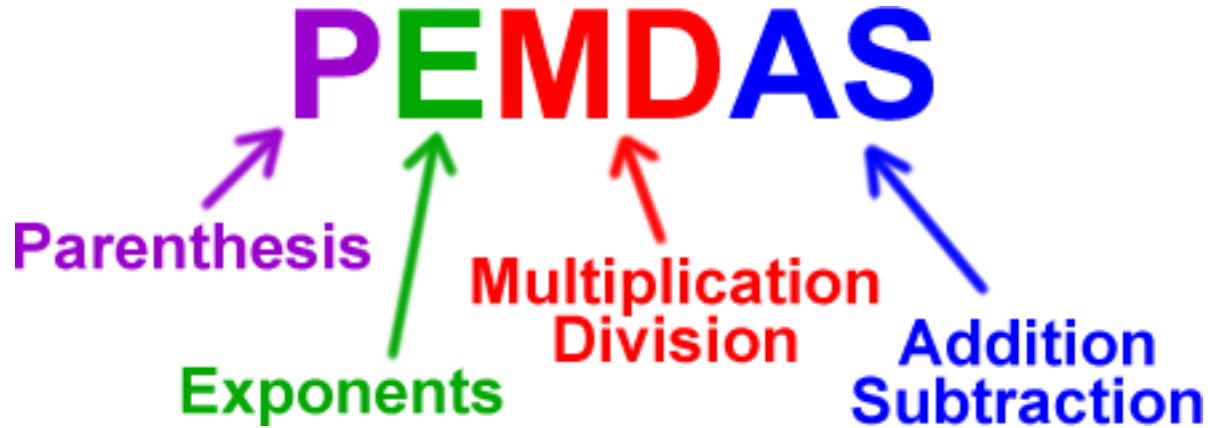


Curvilinear relationship





Rearranging Equations





Rearranging Equations in Physics

WHY?

- We often are not solving for variable.
- We can easily make calculating errors.
- Rearranging equations make us better problem solvers.



Rearranging Equations Examples

$$5 = \sqrt{\frac{A + 25}{5}}$$



Rearranging Equations

$$F = ma$$

$$K = \frac{1}{2} m v^2$$

Complete the Google Form and press “DONE” on Google Classroom.

Bring any questions to class. We will review and practice during class.