Agenda

Homework:

- Scatterplots Study Guide
- Scatterplots CR on FRIDAY
- **AM**

Materials:

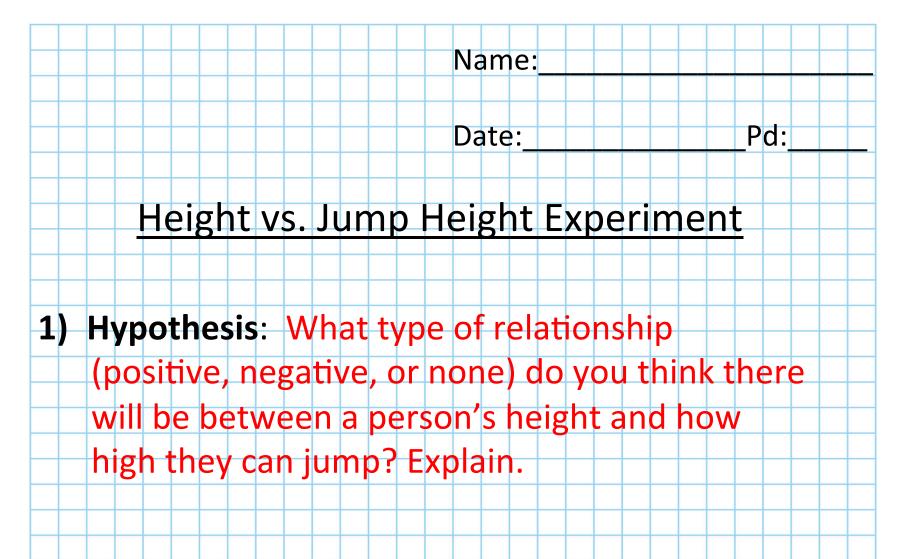
- Calculator
- Ruler

Do Now:

- Take out homework
- Set up Graph Paper (see TV)

Height vs. Jump Height Experiment

Set up Graph Paper



The Experiment Logistics

- Assign each table group member a role:
 - Leader: Should know the experiment procedures and makes sure all group members are ON TASK
 - Recorder: Must write down any data taken during the experiment and then record onto <u>class website</u>
 - <u>Timer:</u> Keep track of time and move group along if they are taking too long
 - Measurer: Use the tape measure with precision to take accurate measurements (in inches)

The Experiment Logistics

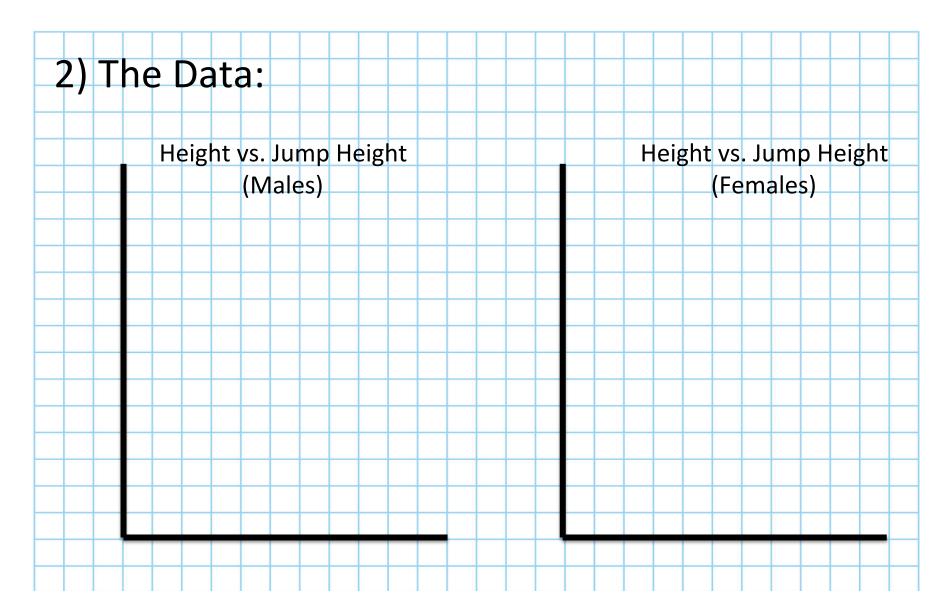
Procedures:

- 1. MEASURE ALL group member's heights in INCHES using the tape measure & RECORD on scratch paper
- 2. Once everyone is measured, go outside to measure jump height
 - 1. Students will use the "jump indicator" by trying to tape it as high up as they can along the wall
 - 2. Measurer will then (with the assistance of a chair) measure, in INCHES, how high the indicator was placed
 - 3. Recorder will record the data on the same scratch paper
- 3. Return inside to record all data onto the class website

The Experiment Results

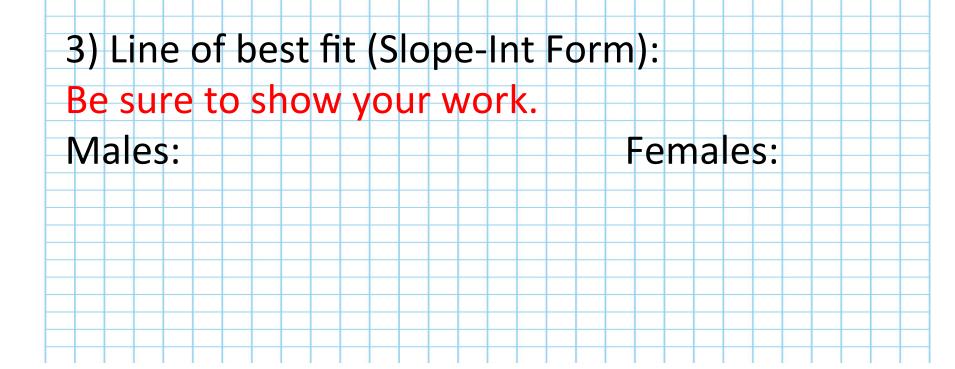
- Once all data is collected, teacher will share the results spreadsheet with the class
 - While waiting, work on homework (Study Guide)
- Recorder MAKE A COPY of the data from their Google Drive, then...
 - Sort the data by gender
 - Then, sort the data by student height
- Use the data to create 2 graphs (one for males and one for females) that show the relationship between height and jump height

Height vs. Jump Height Graphs



Analyzing the Data

- Create a line of best fit for each of your graphs
- Then determine the equation for each line using 2 points on your line



Background Info

- Tallest Male Teenager
- Tallest Female Teenager

Analyzing the Data

 Use your lines of best fit equations to estimate how high the tallest teenager would be able to jump.

