Check HW Assignment → *Green*

5 minutes maximum

Today:

Get specific Project information Packet (P3): ---→ -How to Write the Introduction and prepare for Draft #1

Get to know Project Grading Criteria ---→ Evaluate a 2nd sample proejct.

-Advice Choosing a project

Project Ideas
from the past

Sample project
ideas from the past
from Sheldon

A comparison of Between Prison Funding and SAT Scores

Does Playing An Instrument Make you Smarter

Primary Data

Possible reasons for skin cancer

What does a bumper sticker say about the type of car one buys ?

Primary data

Types of bumper sticker

Costs of cars

Toward the end of class you will get

Packet P3

Tonight's Assignment will be to:

1. Read through the Packet P3

2. Bring your questions tomorrow.

Simple Math Processes (must include 2 at the very least):

➤ Percentages
➤ Areas of plane shapes
➤ % error
➤ right triangle trig, Law of Sines, Law of Cosines
➤ Scatter plots *(need at least 40 points minimum)*
➤ Frequency tables
➤ Mean, Median, Mode and range
➤ Pie charts & Bar charts

➤ 5 number summary / box & whisker plots (based on the median)
➤ histograms
➤ Cumulative frequency curves ("S" curves)
➤ Percentiles
➤ Standard Deviation (done in conjunction with the mean).
➤ Probability
➤ Arithmetic & Geometric Sequences
➤ Ratios, rates, and proportions

Further Math Processes (include at least one for opportunity to earn higher scores) :
Must show an in-depth understanding of the process in terms of your information. Must show in-depth, step by step, calculations with explanations.

➢ Correlation using Scatter Plots

➢ Pearson's Product Moment Correlation coefficient, r. ☺

➢ Lines of best fit (LSRL) ☺

➢ Mathematical Modeling - creating and using functions from real life data ☺

➢ Using residuals in conjunction with a Modeling project ☺

➢ Analysis of exponential functions ☺

➢ Normal Curve using Z-scores ☺

➢ Analysis of Periodic functions such as y=asinbx + c, etc ☺

➢ Compound probability ☺

➢ Chi squared test of Independence ☺ (you really need a lot of data to be safe)

Course Information

Welcome
About Mr. Cedarlund
Contact Me
ALGEBRA 2 Info
AP Statistics
IB Math -Project Support
IB Math Information
IB Math Exam Review and Preparation
Extra Practice Links
Algebra 1 Information
FST Information

IB_Math_Syllabus_Fall 18

Project Handouts

P1_IB Project Info

P2_Collecting Information

P3_Choosing a Project_Writing Intro for Draft 1

P4_Revise_Collect_Describe Data for Draft 2A

P5_Final Draft Requirements NEW

IB Project Writing Guide

official-project-scoring-guide_ib-math-studies

Sample Projects with Scores

sample-project-1-punches

sample-project-2-leadership

sample-project-3-crime

Sample Project 4_Co2 EmissionsSample Project 4_Co2 Emissions   and it's scores: Scores from Sample Project 4

Equation Editors

Below are links for a few free online equation editors. I have tried the first one. It works but is not straightforward compared to Math Type and built in equation editors.

http://www.homeschoolmath.net/worksheets/equation_editor.php

http://www.openeducation.net/2011/02/01/free-software-for-writing-mathematical-equations-in-a-word-document/

https://sourceforge.net/projects/mathcast/

$$x^2 = \underline{\qquad} \qquad r =$$

Project Resources

Spreadsheet Practice with Google

Ideas for Simple Math Processes
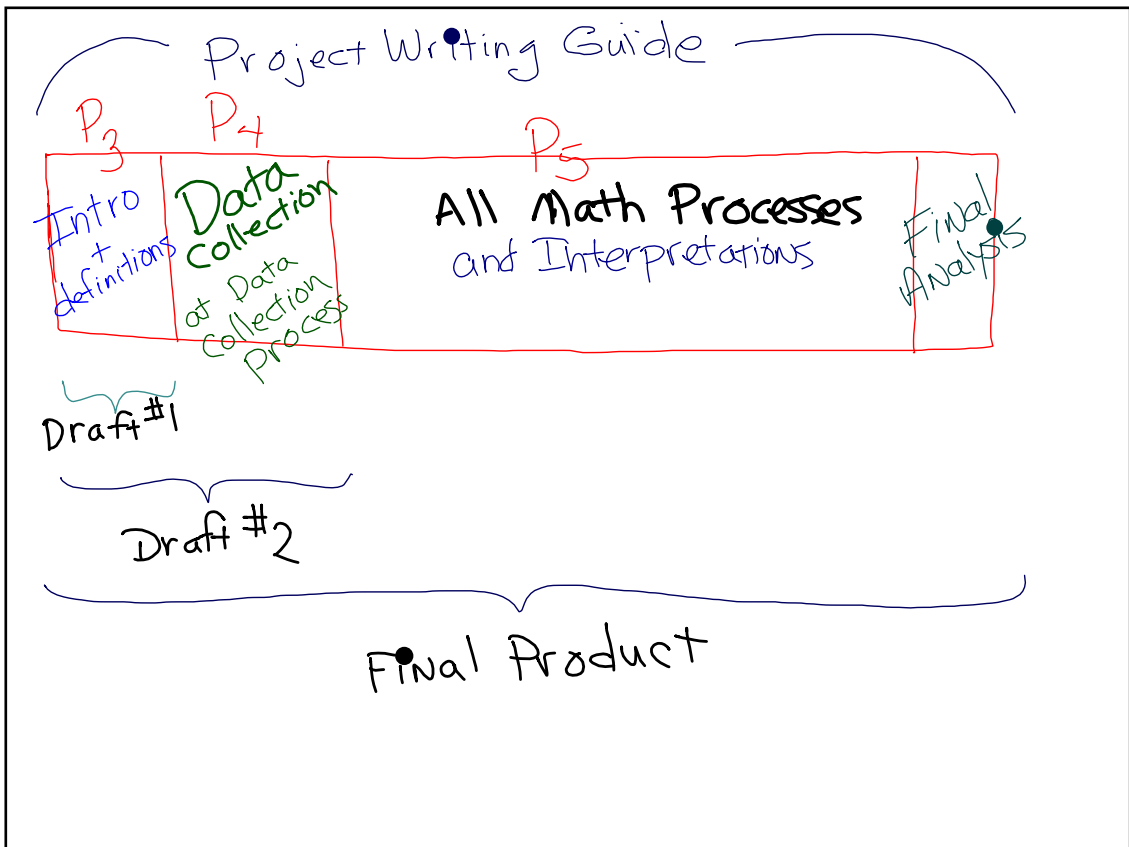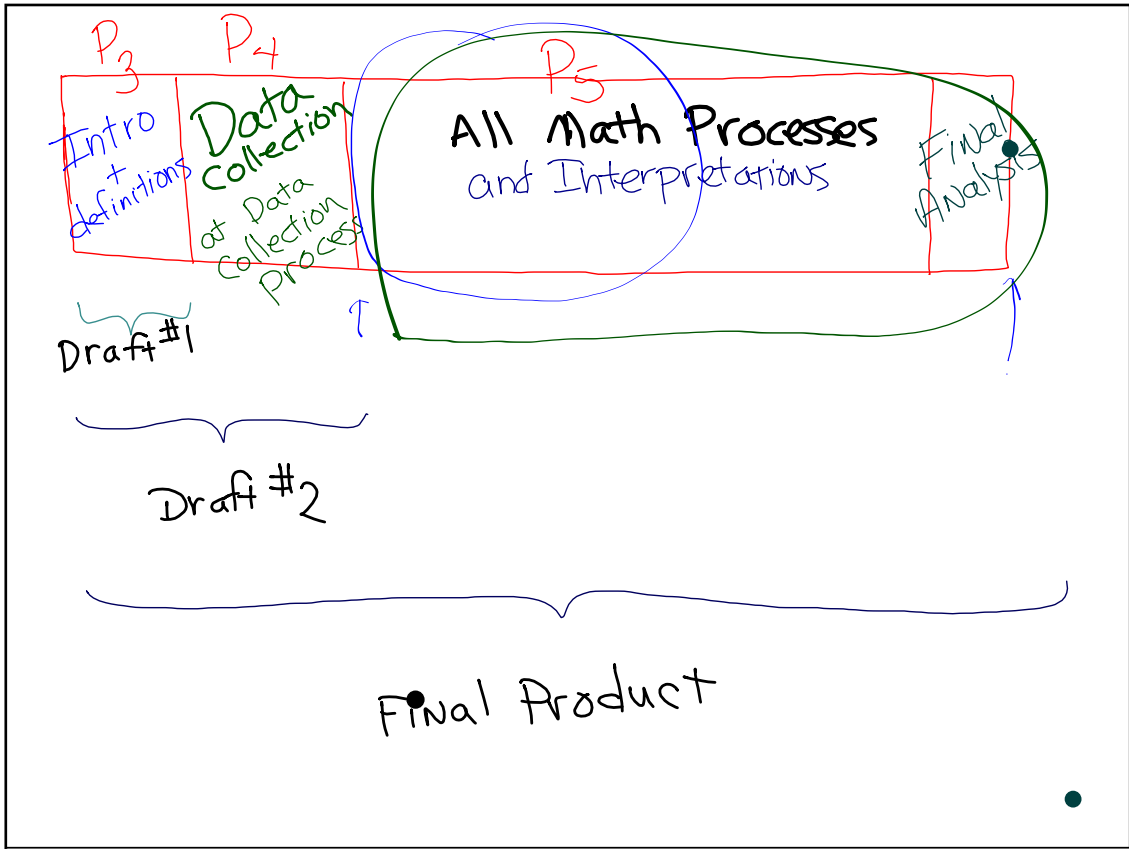
Mishmash of project Ideas and data sources

Project_Ideas

How to Design a Questionairre

Examples of Simple Math Processes generated from a Survey

Guidelines when Making a Survey/Questionairre

AP Stat Site / Tutoria / Look for Planning a Study / Surveys

P_3 P_4 P_5

Intro + definitions

Data Collection
at Data Collection Process

All Math Processes
and Interpretations

Final Analysis

Draft #1

Draft #2

Final Product

Project Writing Guide

P_3 P_4 P_5

Intro + definitions

Data Collection
at Data Collection Process

All Math Processes
and Interpretations

Final Analysis

Draft #1

Draft #2

Final Product

Stay organized. Keep all project handouts together.

--Grading Criteria

-- P1, P3, etc....

Sample projects are to stay in class. You can arrange to come into B-22 to look over a variety of samples before school, lunch, etc.

Pull out your IB Project Scoring Guide given to you earlier.

In Pairs you will look at Martha's project. You will turn in an evaluation.

Evaluation

- Do a quiet read of the whole project

- Pick up the evaluation form and fill yours ot out, working either by yourself or with one other person.

- You will turn it in for a small grade at the end of the session.

B.B.