

(<http://csmatters.org/pd-new>) C - 05a

0bC - 0b101

Data Analysis

Unit Concept Lessons

Revision Date: Sep 10, 2019

Duration: 120 50-minute sessions



Lesson Summary

Summary: Teachers will use Dataquest and EarSketch to analyze data.

Outcomes:

Teachers will:

- Learn how to create accounts for dataquest and earsketch.
- Align the create performance task to the data analysis in each tool.

(Time: 120 minutes)

Overview:

1. Dataquest
2. EarSketch
3. Create Task

Learning Objectives

Teacher Resources

Student computer usage for this lesson is: **required**

CL05_Data Analysis Folder (<https://drive.google.com/open?id=0B5vAY-fhOT-iQjZpdXhjTjZmNXc>)

Lesson Plan

TOTAL: 120 minutes

This lesson is designed to give you time to experiment with some tools that you might want to use with your students to manipulate data. These can be used as learning tools and also as platforms for the Create Performance task for the AP exam.

DataQuest

- View slides 2 through 5 of the presentation on Data Analysis (https://docs.google.com/presentation/d/1FEUyjxvmtSeG7vnmH3Nlg354xOF23aYoFP7DuQuFrys/edit#slide=id.g24fe4f4030_0_35)
 - Create an account and work through missions

EarSketch

- View slides 6 and 7 of the presentation on Data Analysis (https://docs.google.com/presentation/d/1FEUyjxvmtSeG7vnmH3Nlg354xOF23aYoFP7DuQuFrys/edit#slide=id.g24fe4f4030_0_35)
 - Slide 6: Watch a video about EarSketch.
 - Slide 7: Watch a video of how to code in EarSketch.
- Try using EarSketch (it is supposed to be designed for novice programmers who are just getting started. Do you think this is a good way to learn Python?)

Create Performance Task

- Find a partner.
- Begin to plan the task with your partner.
 - Determine the purpose of the program.
 - Decide which programming environment you will use.
 - Look through the College Board Samples.



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