

Math 8 Case Study 2018-2019

Over the next 7 weeks, scholars will work collaboratively to complete **3 products**:

- A mathematical model to understand and analyze
 - Correlation between midterm results & time spent on activities students find fun
 - the characteristics and effects of poverty in the Rochester community
- A culturally relevant math lesson to help improve teaching and learning mathematics in our school

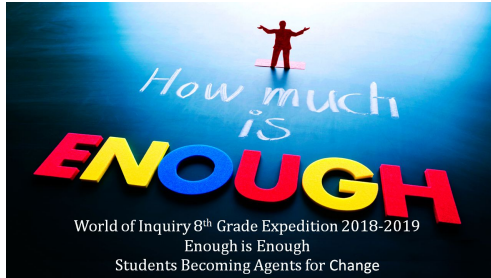
If scholars work productively everyday & every period, they will have more than enough time to complete quality products. Please see the calendar below for an overview of our math case study expedition work.

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1: 1/28-2/1	Modeling/analyzing data: Linear regression	Modeling/analyzing data: Linear regression	Cold day: no school	Cold day: no school	Math NWEA
2: 2/4-2/8	Modeling/analyzing data: linear regression	Creating a regression model: Correlation between midterm and time spent on having fun	Creating a regression model: Correlation between midterm and time spent on having fun	Due: Linear Regression model Is there a correlation?: gallery walk of regression models	Field study
3: 2/11-2/15 CR work	3rd world?: looking at poverty in Rochester	Modeling poverty in Rochester: our district's graduation	Modeling poverty in Rochester: our district's graduation	Who can do math then vs now? What is culturally relevant math?: group research	What is culturally relevant math? :Let's define it!
4: 2/25-3/1 CR work	Due: Collaborative definition of what culturally relevant math	How do you plan a lesson?	How do you plan a lesson?	Lesson topic selection	Brainstorm day
5: 3/4-3/8	Lesson Planning	Lesson Planning	Lesson Planning Teacher feedback	Lesson Planning	Lesson Planning Peer feedback
6: 3/11-3/15	Lesson Planning	Lesson Planning	Lesson Planning	Lesson Planning	Lessons due
7: 3/18-3/22	Student takeover!	Student take over!	Exhibition night	Student take over!	Reflection

Math 8 Case Study Overview

Expedition/Case Study title:

Culturally Relevant Math



Expedition/Case Study topic:

Making a connection between poverty and education in the Rochester community

Guiding Questions:

In what ways have human rights been violated throughout history?

How can one person create a ripple for change?

What methods are used to bring about change?

Learning Targets:

- I can create a mathematical model to represent poverty in Rochester.
- I can develop culturally relevant mathematics lessons.

I have read this overview & have received the calendar of important dates.

Scholar Name/Signature:

Date:

Parent/Guardian Signature:

Date: