

# Project: Local Expert

This project has many different components. To begin, you will choose a middle school math topic to review and teach to your peers. Once your topic has been approved, you will write a Learning Objective. It is a good idea to do a little research to see how other sources state their learning objectives for different contents. More research should be done to compare how different sources teach the same topic and how that compares to your ideas of how to teach the topic. Then, decide what type of “product” or visual presentation you will create that will help you teach your math content to your audience. Type up an outline, a plan, of what you are going to do, how you are going to do it, and how you will assess whether you accomplished your objective. Then, finally, you will create the “end product,” outline and prepare an oral presentation, and create an assessment with an answer key. All materials should be typed (unless you get prior approval from me). The bolded items below are the items that will be turned in. Have fun with this... you are the local expert!

**Learning objective** (“student will be able to...”) be thorough, comprehensive and concise.

**Project Plan** - What is your end product? How will you create it? What will you need? How will you teach your topic to the class? How will you assess whether your audience “learned” the material? Use this as an outline of how you will be teaching your topic and what the end product will look like. Should have a beginning, middle and end. Use it to spell out the order in which you plan to present the material.

**Bibliography** - at least 3 resources correctly cited.

**Visual Presentation** - is your final product. You may create one of the following presentation: a textbook, a story book, a brochure, a trifold, or a game. Other options may be used with prior approval.

**Oral Presentation** - you will present your final product to the class, use it as a learning tool.

**Assessment** - a tool to assess whether your audience has mastered the topic/skills.

**Reflection** - You will be given an prompt to describe your experience with this project. Can be hand written.

## Timeline for Project: LOCAL EXPERT

Sept. 22	Sept. 23	Sept. 27	Sept. 29	Sept. 30
Choose Topic and begin research	Learning objective due (first draft)	Outline for project plans due (first draft)	Visual aid (Product) due (first draft)	Assessment due (first draft)
Oct. 4	Oct. 6	Oct. 7	Oct. 11	Oct. 13
Bibliography due - Final Drafts of Learning Objective, Plan, Product and Assessment	Begin oral presentations - all materials due so that I can assemble the final assessment	Presentations completed - begin final assessment	Correct your assessment given to others (homework)	

## Pick a topic for Project: Local Expert

Geometry Formulas (2-D and 3-D) *Fin, Jillian*

Coordinate Plane *Teena*

Rounding and Estimating *Ava*

Decimals (4 operations, and how they relate to fractions and percents) *Caleb*

Percents *Kaya*

Prime & Composite Numbers and Factoring (GCF & LCM) *Alex*

Fractions (equivalent fractions and how they relate to decimals and percents) *Will*

Fractions (4 operations) *Zach*

Rates, Ratios, and Proportions *Tess*

Exponents *Maya*

Order of Operations *Ella*

Solving Equations (one- and two-step) *Emily*

# Rubric for Project: LOCAL EXPERT

NAME \_\_\_\_\_

TOPIC \_\_\_\_\_

CATEGORY	DESCRIPTION	POSSIBLE POINTS	EARNED POINTS
Learning Objective	Your statement of what your audience will learn, be able to do, understand, etc. ("student will be able to..."). Be thorough, comprehensive and concise.	<b>10</b>	
Plan	Your plan is an outline of how you will be teaching your topic and what the end product will look like. Should have a beginning, middle and end. Use it to spell out the order in which you plan to present the material.	<b>10</b>	
Bibliography	You should correctly site at least 3 resources; including at least 1 book, and 1 website.	<b>10</b>	
Oral Presentation	Your presentation to the class, use your product as a learning tool. Should be well prepared, an expert on the topic, and have a set outline for the presentation.	<b>10</b>	
Visual Presentation - your "product"	The Visual Presentation is your final product. It should be thorough, neat, and easy to follow and understand. Up to <b>5 extra credit points</b> for appearance/neatness.	<b>10 + 5</b>	
Assessment	Your tool to assess whether your audience has mastered the topic/skills. Must include a blank copy and an answer key.	<b>10</b>	
Reflection	You will be given an prompt to describe your experience with this project. Can be hand written, but must be legible.	<b>10</b>	
<b>FINAL SCORE/ PERCENT</b>		<b>70</b>	

## Project: Local Expert Reflection

Name \_\_\_\_\_

Topic \_\_\_\_\_

The following are questions to answer in your reflection. You may answer them in any order that makes sense to you, and makes for a good read for me :)

How confident were you with your topic before going into this project? How did that change as you completed the project?

What did you do well with this project? What would you do differently to improve your project?

How did you feel about assessing your audience? How did you feel about grading their assessment?

Any advice you have for future algebra students who will do this project?