

# Quarter 1 Project Ideas

## 1. Poem, Rap, or Song Project

Choose a math concept, property, or function that you understand and make a poem, rap or song about it. Strive to explain the math involved with your choice. There should be a definite rhythm and rhyme. The math explanation needs to be accurate. You may use examples with numbers or letters. Do NOT make your project a complaint about math, but rather an explanation of math. Be creative. The quality of work is extremely important.

Poems must be NO LESS THAN 25 lines and there should be a definite rhythm and rhyme.

Raps should be rhythmical and be at least 25 lines long.

For songs, you may use a pre-existing melody, or you may create your own. If you write your own music, include the lyrics on the score.

You will perform your poem, rap, or song for the class. You can do it, or have someone prepared to do it for you, or you may record your piece and play it to the class.

## 2. Career Poster Project

This project entails interviewing someone who uses mathematics in his or her job. Ask the person you interview to give you an example of a math problem used in his/her work. The problem should relate to something from Algebra. (Slopes, equations, proportions, etc.)

You will make a poster. The title of the poster should be the name of the career, such as "Engineer" or "Carpenter". On the poster you need to include the following information:

A brief job description of tasks performed for this occupation.

The mathematics problem given to you by the person you interviewed.

A paragraph explaining the problem and how it is used.

A picture to illustrate the job. It can be a photograph of the person you interviewed, or a picture from a magazine or from the computer of a person in that occupation, or it may be drawn.

On the back of the poster, you must include these three items:

1. Your name
2. The name of the person interviewed and the name of the place where she or he works.
3. The daytime phone number of the person you interviewed.

You will present and explain your poster to the class. This project may be done as a PowerPoint or Keynote Presentation as well.

### 3. Conduct a survey

Conduct a survey about any school issue and display the data in a spreadsheet and graphs. You must question **at least** 25 people. Analyze the data and write a one-page summary of your findings. Some things you might want to consider:

1. Who is your target audience?
2. Did you keep your data organized?
3. What conclusions might you draw about the whole school from your survey?

This project may be done as a Power Point/Keynote project or paper/poster.

You must include a copy of the survey question/questions and data in your final report.

### 4. A Math Game

Create an **original** math game (card, dice, or board) that can be played in the classroom. It can take the form of a trivia game (like trivial pursuit or jeopardy), or a Yahtzee type game with dice. It's up to you, but it must be about some math concept!!! You must have:

1. Step-by-step instructions on how to play the game.
2. Explanation of how a player wins.
3. The capability of at least 4 players at a time.
4. The materials must be included.
5. A decorated box, which includes all the pieces necessary.
6. A catchy name.