

Objectives: Lord make a way for me and guide me when Im impatient. I'm being challenged with being a mother,a teacher and the responsibilities. My hope is in you.

Develop relevant and active learning mathematical activities to accomplish curriculum expectations and meet the needs of diverse learners. Demonstrate ability to work collaboratively with peers and assess peer group work.

Expectations:

This collaborative assignment is for a group of 5-7 students. Every group will design a lesson in which mathematics is integrated with any other subject or hobby. State the grade level for which it would be used and the curriculum expectations of the two subjects you are attempting to meet.

Prepare a handout, maximum 3 pages, describing the lesson, the grade level, appropriate exercises/activities, and the description of measurable expectations. Submit the handout to the instructor on the day of the presentation. All group members must be involved, and the presentation should be about 25 minutes long. It will be peer-evaluated.

Make a list of survey questions that your students could ask.

Pictograph or Bar Graph Questions	
1. What is your favorite sport? 2. What is your favorite pet? 3. What is your favorite school subject? 4. What is your favorite flavor of ice cream? 5. Number of days of rain in a week 6. What is your favorite video game? 7. What is your favorite lunch?	8. What is your favorite shoe? 9. Who is your favorite YouTuber? aphmau 10. What is your favorite day of the week? 11. What is your favorite song? 12. What month is your birthday? 13. What is your mode of transportation to school?
Line Plot Questions	
1. Hours of Sleep Last Night 2. Length of Foot (in inches) 3. Number of books read a week 4. Number of hours playing video games 5. Length of wrist in inches 6. Circumference of head (in inches) 7. Length of tables (inches)	8. How many jumps within a minute. 9. How many cups of water drunk in a day 10. Number of people living in your home 11. Number of green light days in Reflex Math 12. Width of books in class library. 13. How many different genres read in a month/week? 14.

1. What is your favourite colour?

- a. Pink
- b. Blue
- c. Green
- d. Purple
- e. Red

2. What is your favourite animal?

- a. Dog
- b. Cat
- c. Horses
- d. Monkey
- e. Lions
- f. Other

3. What is your favourite ice cream?

- a. Chocolate
- b. Vanilla
- c. Strawberry
- d. Cookies and cream
- e. Cotton candy
- f. Other

Follow-up Questions

- 1. What category had the most amount of responses
- 2. What category had the least amount of responses
- 3. If someone was looking at this graph what could they quickly observe
- 4. How many people total answered this survey

In a grade 3 classroom, there are many engaging, hands-on activities to help students explore data management and probability. Students can conduct a class survey, record their results in a tally chart and then represent their data using colourful bargraphs and pictographs. They could collaborate to build a 3D bar graph using craft materials to represent their data. For probability, students could create a spinner or use dice to explore the likelihood of different outcomes, recording and comparing their results in groups. These activities are creatively linked to art and encourages students to design visually appealing graphs, decorate their spinners, and turn their math data into displays making their learning both interactive and visually expressive.