Grade: 6
Teacher: Korajian

Weekly Plan for Learning

Date: June 1- June 12 WEEK 10 & 11

Mathematics

Description: Students will be exploring ratio and proportion through problem solving activities in groups and independently. They will be applying their understanding of ratio and proportion in authentic, daily situations.

Understand

Big Ideas:
Computational fluency and flexibility with numbers extend to operations with whole numbers and decimals.

A ratio compares two or more quantities, indicating their size in relation to each other.

Essential Questions:
What is a ratio?

When you see a ratio, how can you tell if it is a part-to-part or part-to-whole ratio?

Where do ratios appear in our everyday lives?

How do you know if ratios are equivalent or not?

Do

Curricular Competencies:
Use reasoning and logic to explore, analyze, and apply mathematical ideas

Model

Communicate mathematical thinking in many ways

Represent mathematical ideas in concrete, pictorial, and symbolic forms

Connect mathematical concepts to each other and to other areas and personal interests

Acting it out, using concrete materials (e.g., manipulatives), drawing pictures or diagrams, building, programming

Concretely, pictorially, symbolically, and by using spoken or written language to express, describe, explain, justify, and apply mathematical ideas; may use technology such as screencasting apps, digital photos to develop a sense of how mathematics helps us understand ourselves and the world around us (e.g., cross-discipline, daily activities, local and traditional practices, the environment, popular media and news events, and social justice)

Know

Core competencies

The students will be focusing on developing the highlighted skills throughout all areas of learning this week

Communicating
- Listening and responding
- Speaking purposefully
- Reading and responding
- Writing
- Non-verbal cues

Collaborating
- Cooperating, working collectively, sharing ideas and resources
- Encouraging, including and supporting others
- Group decision making

Personal awareness and responsibility (Self-Management)
- Time management
- Organisation
- Setting goals for learning
- Self-Advocating, seeking help when in need
- Accepting responsibility
- Self-regulation
- Making informed choices
- Well-being, staying healthy and active

Positive personal and cultural identity
- Understanding relationships and cultural contexts
- Recognising personal values and choices
- Identifying personal strengths and abilities

Social awareness and responsibility
- Respecting others
- Resolving conflict
- Building relationships
- Adapting a variety of roles
- Recognising diversity

Thinking Skills
Creative thinking
- Generating ideas and building on ideas of others
- Creating and innovating
- Evaluating and developing

Critical and reflective thinking
- Analysing and critiquing
- Questioning and investigating
- Reflecting and assessing

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<td>Curricular Content:
Ratios compare quantities

Comparing numbers, comparing quantities

Identify and solve equivalent ratios

Identify and create part-to-part ratios and part-to-whole ratios</td>
<td>- Use ratios for part-to-part and part-to-whole comparisons
Example: A penny can show heads or tails. Place 10 pennies in a cup. Shake and spill. Write as many ratios as you can for the pennies.

or

Write as many ratios as you can for the trail mix recipe. Explain what each ratio compares.
1 scoop raisins
3 scoops nuts
2 coops dried papaya
1 scoop sunflower seeds

- Explore equivalent ratios
Example:
The word “fun” has a vowel-to-consonant ratio of 1:2. Find 3 words with a vowel-to-consonant ratio of 2:3. Choose a vowel-to-consonant ratio and find 3 words for it.

or

To make a jug of plant fertilizer, Malaika uses 6 cups of water and 3 scoops of fertilizer. Part uses 8 cups of water and 5 scoops of fertilizer. Will Malaika’s and Bart’s plant fertilizer have the same strength? Explain.</td>
<td rowspan="2">Research Skills
○ Formulating questions
○ Observing
○ Planning
○ Collecting data
○ Recording data
○ Organizing data
○ Interpreting data
○ Presenting research</td>
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<td colspan="2">Required Resources and Materials:
- computer with internet access
- calculator
- pencil and paper
- eraser</td>
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