MATATAG

Bansang Makabata Batang Makabansa

BAGONG PILIPINAS

School Logo

Name of School:		*Quarter:*	*4th Quarter*
Grade Level & Section:	*Grade 7*	*Week:*	*Week 8 Day 5*
Subject:	*MATHEMATICS*	*Date and Time:*	
Topic:		*Teacher:*	

I. CONTENT, STANDARDS AND LEARNING COMPETENCIES		*ANNOTATIONS*
A. CONTENT STANDARDS	The learners should have knowledge and understanding of operations using scientific notation. (MG)	
B. PERFORMANCE STANDARDS	By the end of the quarter, the learners are able to write numbers in scientific notation and perform operations on numbers written in scientific notation.	
C. LEARNING COMPETENCIES	At the end of the lesson, the learners are expected to: 1. Write numbers in scientific notation to represent very large or very small numbers, and vice versa. 2. Perform operations on numbers expressed in scientific notation.	
I. CONTENT		
Writing numbers in scientific notations		
II. LEARNING RESOURCES		

A. REFERENCES	
B. OTHER LEARNING RESOURCES	Dodds, C. (2012, February 6). Colin Dodds - Scientific Notation (Math Song) [Video]. YouTube. https://www.youtube.com/watch?v=AWof6knvQwE CK-12 Foundation. (n.d.). CK-12 Foundation. https://flexbooks.ck12.org/cbook/ck-12-conceptos-de-matem%C3%A1ticas-de-la-escuela-secundaria-grado-8-enespa%C3%B1ol/section/5.16/related/lesson/operations-with-numbers-in-scientific-notationmsm7/ Operations with Scientific Notation (Addition, Multiplication, Subtraction of Numbers) - BYJUS. (2022, August 10). BYJU'S. https://byjus.com/us/math/operations-in-scientific-notation/

III. TEACHING AND LEARNING PROCEDURE

BEFORE/PRE-LESSON PROPER		
ACTIVATING PRIOR KNOWLEDGE		
LESSON PURPOSE/INTENTION		
LESSON LANGUAGE PRACTICE		
DURING/LESSON PROPER		
READING THE KEY IDEA/STEM		
DEVELOPING and DEEPENING UNDERSTANDING OF		

<table>
<tr><td>THE KEY IDEA/STEM</td><td></td><td></td></tr>
<tr><td colspan="3">AFTER AFTER/POST-LESSON</td></tr>
<tr><td>MAKING GENERALIZATIONS AND ABSTRACTIONS</td><td></td><td></td></tr>
<tr><td>EVALUATING LEARNING</td><td>Activity 6: Solve It!

Instruction: Let the learners analyze and solve each problem. Present the rubrics of the activity to the class.

1. Daniel’s computer hard disk drive holds 1.83 × 1012 bytes of information. If he buys an extra memory stick that holds 8 × 109 bytes of information, how much memory will the computer hold altogether? Express your answer in decimal form and in scientific notation.

2. Abby is creating a mosaic in her guest room using square tiles. The width of the tile is 0.25 meters. If it took 670 tiles to cover the width of the guest room, how wide is it? Express your answer in scientific notation.

Rubrics (Max of 5 points for each item)
<table>
<tr><th>Score</th><th>Indicator/s</th></tr>
<tr><td>5</td><td>Provided a complete solution with correct procedure and
arrived at the correct answer.</td></tr>
<tr><td>4</td><td>Provided a complete solution with one incorrect procedure but still arrive at the correct answer.</td></tr>
<tr><td>3</td><td>Provided a partially completed the solution with 2-3 incorrect procedures and arrive at the correct answer.</td></tr>
<tr><td>2</td><td>Provided an incomplete solution with 1-2 correct procedures but did not arrive at the correct answer.</td></tr>
<tr><td>1</td><td>Provided an incomplete solution with an attempt to solve the problem but did not arrive at the correct answer.</td></tr>
<tr><td>0</td><td>Did not attempt to solve the problem.</td></tr>
</table></td><td>Refer to the provided rubrics in checking students’ solutions to the activity.

Answer Key:
a. 1 838 000 000 000
bytes and 1.838 × 10^{12}
bytes
b. 1.675 × 10^{2}
meters</td></tr>
<tr><td>ADDITIONAL ACTIVITIES FOR APPLICATION</td><td></td><td></td></tr>
</table>

OR REMEDIATION (IF APPLICABLE)		
REMARKS		
REFLECTION		

Prepared by:

_____

_____

Subject Teacher
Teacher

Reviewed by:

Master Teacher/Head