

LESSON PLAN FOR WEEK THREE (3)

CLASS	SUBJECT	TOPICS
JSS 1	MATHEMATICS	SIMPLIFYING ALGEBRAIC EXPRESSION

SUBJECT: MATHEMATICS

CLASS: JSS 1

TOPIC: OPEN SENTENCE

DATE: 26<sup>TH</sup> – 30<sup>TH</sup> JANUARY, 2026

DURATION: 40 MINUTES

LEARNING OBJECTIVE: BY THE END OF THE LESSON, THE TEACHER SHOULD HAVE TAUGHT OPEN SENTENCE

SPECIFIC OBJECTIVE: BY THE END OF THE LESSON, THE STUDENTS SHOULD BE ABLE TO

- State the coefficient of an algebraic terms
- Group positive and negative terms to simplify an algebraic expression
- Group like and unlike terms to simplify an algebraic expression

INSTRUCTIONAL MATERIALS: SUSPENCE BOX

LESSON DEVELOPMENT

STEPS	TEACHERS ACTIVITIES	PUPILS ACTIVITIES	LEARNING POINT
Introduction	Ask questions from previous lesson	Answer the question	Reviewing previous lesson
Presentation	Introducing the topic	Pay attention and participate	Familiarizing the topic
Lesson 1 Step 1  Step 2  Step 3 Step 4	<p>Simplifying algebraic expression</p> <p>In arithmetic, <math>3 \times 4</math> is a short way of writing <math>4 + 4 + 4</math>. similarly, in algebra <math>3 \times a</math> is short for <math>a + a + a</math>. We usually shorten <math>3 \times a</math> to <math>3a</math>.</p> <ul style="list-style-type: none"> <li>• Write <math>x + x + x</math> in the shortest possible way and <math>3 \times 6</math> in arithmetic.</li> <li>• <math>x + x + x = 3 \times x = 3x</math></li> <li>• <math>3 \times 6 = 6 + 6 + 6 = 18</math></li> </ul> <p>Class work Marking and correction</p>	Haunt some hidden items	Simplifying algebraic expression
Lesson 2	Coefficient	Answer some	coefficient

Step 1	<ul style="list-style-type: none"> <li>In <math>7y</math>, 7 is the coefficient of <math>y</math>, 7 <math>y</math>'s have been added together. In <math>x</math>, there is only one <math>x</math>; <math>x</math> is the same as <math>1x</math>; the coefficient of <math>x</math> is 1.</li> </ul>	question	
Step 2	<p>What is the coefficient of <math>x</math> and <math>a</math> in <math>\frac{3}{4x}</math> and <math>\frac{2a}{3}</math></p> <p>Answer</p> <p><math>\frac{3}{4}</math> is the coefficient of <math>x</math></p> <p><math>\frac{2}{3}</math> is the coefficient of <math>a</math></p>		
Step 3	Class work		
Step 4	Marking and correction		
Lesson 3	Grouping negative and positive integers	Answer some question	Grouping negative and positive integers
Step 1	<p>Example 1</p> <ul style="list-style-type: none"> <li><math>3x + 2x</math> means 3<math>x</math>'s add 2<math>x</math>'s. this gives 5<math>x</math>'s altogether.</li> </ul> <p>Thus, <math>3x + 2x = 5x</math></p> <ul style="list-style-type: none"> <li><math>7y - 4y</math> means 7<math>y</math>'s take away 4<math>y</math>'s. this leave 3<math>y</math>'s</li> </ul> <p><math>7y - 4y = 3y</math></p>		
Step 2	<p>Example 2</p> <ul style="list-style-type: none"> <li>Simplify <math>3m - 8m - 2m + 16m - 4m</math></li> </ul> <p>Solution</p> <p><math>3m - 8m - 2m + 16m - 4m</math></p> <p><math>= 3m + 16m - 8m - 2m - 4m</math></p> <p><math>= 19m - 8m - 2m - 4m</math></p> <p><math>= 11m - 2m - 4m</math></p> <p><math>= 9m - 4m</math></p> <p><math>= 5m</math></p>		
Step 3	Class work		
Step 4	Marking and correction		
Lesson 4	Grouping like and unlike terms	Solve some question	Grouping like and unlike terms
Step 1	<p>Example 1</p> <p>What is the sum of 5 plantains and 8 plantains?</p> <p>Similarly, in algebra <math>5p + 8p = 13p</math></p> <p>Simplify <math>3p + 8t + 6p + 5t</math></p> <p>Solution</p> <p><math>3p + 8t + 6p + 5t</math></p> <p><math>3p + 6p + 8t + 5t</math></p> <p><math>9p + 13t</math></p>		
Step 2	<p>Example 2</p> <p>Simplify <math>8x - 6y - 9y - 2x</math></p> <p>Solution</p> <p><math>8x - 2x - 6y - 9y</math></p> <p><math>6x - 15y</math></p>		
Step 3	Class work		
Step 4	Marking and correction		

Lesson 5 Step 1  Step 2  Step 3 Step 4	<p>Word problem</p> <ul style="list-style-type: none"> <li>It is important to be able to change everyday word problem into algebra.</li> </ul> <p>Example</p> <ul style="list-style-type: none"> <li>A student has #1000 and buy a pen costing <math>x</math> naira and a book costing <math>y</math> naira. How much does the student have left?</li> </ul> <p>Solution</p> <p>Starting money = #1000  Total expenditure (<math>\#x + \#y</math>)  Money left = #1000 – (<math>\#x - \#y</math>)</p> <p>Class work  Marking and correction</p>	Solve questions	Word problem
Evaluation	Ask question from the lesson	Answer the question	Reviewing level of understanding
Conclusion	<p>Assignment</p> <p><i>Simplify the following</i></p> <ol style="list-style-type: none"> <li><math>2x + 3x - 7</math></li> <li><math>5s + s + 2s + 42</math></li> <li><math>4q + 6q</math></li> <li><math>c + c + c + c + c + c + c + c</math></li> </ol>		