

**DEPARTMENT OF EDUCATION**  
**CURRICULUM AND INSTRUCTION DIVISION**  
**JUNKANOO INTEGRATION TEMPLATE**

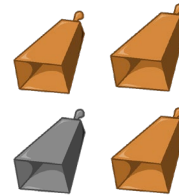
**SUBJECT:** Mathematics

**GRADE:** 7

<b>Pacing Guide Week #</b>	<b>Topic (As displayed on the Pacing Guide)</b>	<b>Objectives (As outlined in the Curriculum)</b>	<b>Integration Strategy (Activities)</b>	<b>Resources</b>
Week <u>1</u> January 6-9, <b>2025</b>	<b>Alg 7.1 Algebraic Representation</b>	<b>Alg 7.1 Lesson 1</b> 1) Define & Identify: Constant, Variable, Term, Like Terms, Numerical Coefficient, Expression & Equation  2) Writing basic expressions: Sums, differences, products, & quotients	Introduction: 1) Brainstorm elements of junkanoo – <i>When you think of junkanoo, what do you think of?</i> (Create list) 2) Brainstorm elements of algebra - <i>When you think of algebra or hear the word algebra, what do you think of?</i> (Create list)	Visual Aids: Pictures or videos of Junkanoo parades.  Collaboration Tools: Whiteboard or flip chart to jot down ideas.
		<b>Alg 7.1 Lesson 2</b> 1) Write basic expressions: <ul style="list-style-type: none"> <li>• Sums</li> <li>• differences</li> </ul>	Activity: Write numerical expressions and algebraic expressions given specific images.	Paper pencils Notebooks Junkanoo Images Vocabulary words

- products
  - Quotients
- 2) Create a word problem for single operation algebraic expressions

1) Review the meaning and symbols of sum, difference, product and quotient with the following image



Example

Sum:  $2 + 2$  or  $3 + 1$

Difference:  $4 - 3$  or  $4 - 1$

Product:  $2 \times 2$

Quotient:  $4/2$

2) For algebra, we will use variables to give more detail.

Example

Sum:  $2c + 2c$

Difference:  $4c - 3c$

Product:  $2 \times 2c$

Quotient:  $4c/2$

3) Show the class a junkanoo image

Whiteboard  
Whiteboard markers



Discuss possible algebraic expressions using the keywords

Example

$$2c + d$$

$$4p - 3j$$

Discuss what the expressions could be representative of in the image?

4) create a storyline and word problem based on the image.

Example.

6 valley boy musicians were scheduled for a performance, but only half came to the performance. Write an

			<p>expression to represent this.</p> <p>5) Divide students into small groups of 2 or 3. Provide each group with a image or picture related to Junkanoo. Each group will create storylines, word problems and single operation algebraic expressions based on their image.</p>	
		<p><b>Alg 7.1</b> <b>Lesson 3</b> Write simple algebraic equations involving one operation.</p>	<p>Correlate variables with appropriate elements of junkanoo where possible.</p> <p>Example Sara has 12 whistles. She buys some more whistles. If she now has 20 whistles in total, how many whistles did she buy? Equation: <math>(12 + x = 20)</math></p>	<p>Worksheet Visual Aid with operations</p>

	<p><b>Alg 7.2</b> <b>Basic Algebraic Operation</b></p>	<p><b>Alg 7.2</b> <b>Lesson 1</b> Operate on terms, each with one symbol:</p> <ul style="list-style-type: none"> <li>• Adding &amp; subtracting like terms</li> <li>• Multiplying and dividing. Eg. <math>2 \times 3a</math></li> </ul>	<p>Create take it to your seat folders for each operation.</p> <p>Divide students into small groups and give each group a folder.</p> <p>Play junkanoo music to indicate when groups must trade their folder with another group.</p>	<p>Take it to your seat folders:</p> <p>1)worksheets on adding and subtracting.</p> <p>2) worksheets on multiplication and division of terms.</p> <p>3)printable math puzzles</p> <p>4)memory cards with matching questions and answer cards</p>
<p>Week <u>  2  </u> January 13-17, <b>2025</b></p>	<p><b>Alg 7.2</b> <b>Basic Algebraic Operation</b></p> <p><b>Alg 7.3</b> <b>Substitution</b></p> <p><b>Alg 7.4</b> <b>The Distributive Property</b></p>	<p><b>Alg 7.2</b> <b>Lesson 2</b> Simplify expressions by collecting like terms.</p> <p><b>Alg 7.3</b> <b>Lessons 1 &amp; 2</b> Evaluate algebraic expressions and formulae by substituting whole numbers for symbols.</p> <p><b>Alg 7.4</b> <b>Lesson 1</b></p>	<p>Use variables to represent elements of junkanoo</p>	<p>Textbooks Junkanoo elements</p>

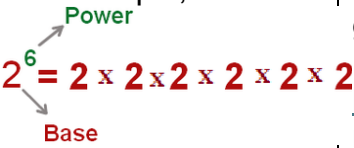
		<p>1) Verify the distributive property using natural numbers.</p> <p>2) Multiplying a sum by a natural number</p>		
<p>Week <u>3</u> January 20-24, <b>2025</b></p>	<p><b>Alg 7.5 Factorization</b></p> <p><b>Alg 7.6 Equations</b></p>	<p><b>Alg 7.5 Lesson 1</b> Rewriting numerical sums and differences as products.</p> <p><b>Alg 7.6 Lessons 1 - 3</b> 1) Create one step linear equations from word problems. 2) Solve one-step equations involving: addition, subtraction, multiplication, division using inverse operations, and balancing equations.</p>		<p>Textbooks Junkanoo elements</p>
<p>Week <u>4</u> January 27-31, <b>2025</b></p>	<p><b>Alg 7.7 Inequalities</b></p>	<p><b>Alg 7.7 Lesson 1</b> Identify the solution sets of simple inequalities.</p> <p><b>Alg 7.7 Lesson 2</b></p>	<p>Students will create mini parades showing variable multiplication expressions expanded and in exponent form. This can be done on paper as well as drawings.</p>	<p>Copy paper Pencils Crayons</p> <p><i>Optional</i> Markers Glitter Scissors glue</p>

	<b>EIP 7.1</b> <b>Exponents/Indices/Powers</b>	Represent the solution sets of simple inequalities on the number line.  <b>EIP 7.1</b> 1) Write variable multiplication expressions (variables) in exponent form and vice versa. Eg. $a \times a \times a = a^3$ * Review a) writing numerical multiplication expressions in exponent form and vice versa. b) square numbers c) cube numbers		
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**DEPARTMENT OF EDUCATION  
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JUNKANOO INTEGRATION TEMPLATE**

**SUBJECT:** Mathematics

**GRADE:** 8

<b>Pacing Guide Week #</b>	<b>Topic (As displayed on the Pacing Guide)</b>	<b>Objectives (As outlined in the Curriculum)</b>	<b>Integration Strategy (Activities)</b>	<b>Resources</b>
Week <u>1</u> January 6-9, <b>2025</b>	Exponents/Indices/Powers	Identify the base and exponent in algebraic expressions.  Rewrite expressions involving powers.	Students will design junkanoo pieces representing an algebraic expression written exponentially as well as an expanded product. For example, $2^6 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$  Gallery Walk	Copy paper Pencils Crayons  <i>Optional</i> Markers Glitter Scissors glue  <a href="https://www.homeschoolmath.net/worksheets/exponents.php">https://www.homeschoolmath.net/worksheets/exponents.php</a>



	Algebraic Representation	<p>Translate English phrases into algebraic expressions and vice versa: up to two operations without brackets.</p> <p>Translate English sentences into algebraic equations.</p>	<p>Use scenarios based on junkanoo themes for the phrases. For example, The parade has 5 dancers and 3 more dancers joined. Ans <math>5d + 3d</math></p>	
<p>Week <u>  2  </u> – January 13-17, <b>2025</b></p>	Basic Algebraic Operation	Operate on terms, involving two or more symbols	<p>Correlate variables with appropriate elements of junkanoo where possible.</p> <p><math>3h + 5d + h - 2d</math></p>	<p>Textbooks Junkanoo elements</p>

	<p>Substitution</p> <p>The Distributive Property</p>	<p>and powers.</p> <p>Simplify expressions by collecting like terms including terms with powers.</p> <p>Evaluate algebraic expressions and formulae by substituting integers for symbols.</p> <p>Multiply sums and differences by integers and variables.</p>	<p>Think:</p> <p>(i) <math>3h + 5d + 1h - 2d</math></p> <p>(ii) if 1 horn cost \$120 and 1 drum cost \$60, calculate <math>3h + 5d</math></p> <p>(iii) <math>2(3h + 5d)</math></p> <p>2 groups and each group has 3 horns and 5 drums. What is the total number of horns and total number of drums</p>	
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<p>Week <u>3</u> January 20-24, <b>2025</b></p>	<p>Factorization</p> <p>Algebraic Fractions</p> <p>Equations</p>	<p>Rewrite sums and differences of simple algebraic term as products.</p> <p>Multiply and divide simple algebraic fractions.</p> <p>Solve two step equations.</p>	<p>Correlate variables with appropriate elements of junkanoo where possible.</p> <p>Think: For 12 drums and 9 free dancers, how can we divide them into equal groups?</p> <p>Ans. 3 groups, each with 4 drums and 3 free dancers</p> $3(4d + 3f)$	<p>Textbooks</p> <p>Junkanoo elements</p>
<p>Week <u>4</u> January 27-31, <b>2025</b></p>	<p>Equations</p> <p>Transposition of Formulae</p> <p>Inequalities</p>	<p>Solve simple linear equations involving brackets and equations with variables on both sides.</p>	<p>Correlate variables with appropriate elements of junkanoo where possible.</p> <p>Example</p> $150 - 2f = 40$ <p>Think aloud</p> <p>Shandray had \$150. She purchased 2 large feathers (same price) and now has \$40 change. What is the</p>	<p>Textbooks</p> <p>Junkanoo elements</p>

		<p>Use two-step linear equations to solve word problems.</p> <p>Change the subject of simple formulae with one operation.</p> <p>Describe and interpret sets of integers using inequality symbols.</p>	<p>value of one of those feathers?</p>	
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**DEPARTMENT OF EDUCATION**  
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**SUBJECT:** Mathematics

**GRADE:** 9

<b>Pacing Guide Week #</b>	<b>Topic (As displayed on the Pacing Guide)</b>	<b>Objectives (As outlined in the Curriculum)</b>	<b>Integration Strategy (Activities)</b>	<b>Resources</b>
Week <u>1</u> January 6-9, <b>2025</b>	<b>Algebra</b> <b>Alg 9.1</b> Basic Algebraic Operations          <b>Alg 9.2</b> <b>Equations</b>	<b>Alg 9.1.1</b> Simplify expressions by collecting like terms.  <b>Alg 9.1.2</b> Multiply and divide monomials without powers.  <b>Alg 9.1.3</b> Multiply and divide monomials by expanding powers.  <b>Alg 9.2.1</b> Review solution of simple linear equations involving brackets and	Students will create junkanoo inspired posters with examples of addition, subtraction, multiplication and division of algebraic terms.	Plain computer paper <i>Options</i> Crayons colored pencils markers

		<p>equations with variables on both sides.</p> <p><b>Alg 9.2.2</b> Use linear equations to solve word problems</p>		
<p>Week <u> 2 </u> January 13-17, <b>2025</b></p>	<p><b>Alg 9.3</b> <b>Algebraic Representation</b></p> <p><b>Alg 9.4</b> <b>Substitution</b></p> <p><b>Alg 9.5</b> <b>The Distributive Property</b></p> <p><b>Alg 9.6</b> <b>Factorization</b></p>	<p><b>Alg 9.3.1</b> Translate/write/create algebraic expressions with brackets.</p> <p><b>Alg 9.3.2</b> Translate/write/create algebraic equations with brackets.</p> <p><b>Alg 9.4.1</b> Evaluate algebraic expressions and formulae by substituting <b>rational numbers</b> for symbols.</p> <p><b>Alg 9.5.1</b> Expand products and collect like terms to simplify expressions.</p> <p><b>Alg 9.6.1</b> Identify factors of monomials to determine the H.C.F.</p>	<p>Use scenarios based on junkanoo themes for the phrases. For example, The parade has 5 dancens and 3 more dancens joined. Ans <math>5d + 3d</math></p> <p>Correlate variables with appropriate elements of junkanoo where possible.</p> <p><math>3h + 5d + h - 2d</math> Think: (i) 3 horns + 5 drums + 1 horn - 2 drums (ii) if 1 horn cost \$120 and 1 drum cost \$60, calculate <math>3h + 5d</math></p>	<p>Pictures (printed or digital) Textbooks or worksheets</p>

		<p><b>Alg 9.6.2</b> Factor simple binomials using the H.C.F.</p>		
<p>Week <u>3</u> January 20-24, <b>2025</b></p>	<p><b>Alg 9.7</b> <b>Algebraic Fractions</b></p> <p><b>Alg 9.9</b> <b>Transposition of Formulae</b></p>	<p><b>Alg 9.7.1</b> Add and subtract algebraic fractions with constant and variable denominators.</p> <p><b>Alg 9.7.2</b> Multiplication and division of algebraic fractions with monomial numerators and denominators</p> <p><b>Alg 9.9.1</b> Change the subject of simple formulae with no more than two operations and the subject appearing once.</p>	<p>Junkanoo music will be used to indicate periods of transition.</p>	<p>Junkanoo music</p>
<p>Week <u>4</u> January 27-31, <b>2025</b></p>	<p><b>Alg 9.9</b> <b>Inequalities</b></p>	<p><b>Alg 9.9.1</b> Translate English phrases to inequalities and vice versa.</p> <p><b>Alg 9.9.2</b> Describe and interpret sets of real numbers using inequality symbols.</p>	<p>Students will translate rules for costume designs into inequalities (e.g., "The total height of the float must be less than 10 feet").</p>	<p>Pictures (printed or digital) Textbooks or worksheets</p>

		<p><b>Alg 9.9.3</b> Solve simple linear inequalities involving one operation.</p> <p><b>Alg 9.9.4</b> Illustrate the solution set on the number line.</p> <p><b>Alg 9.9.5</b> Graph simple inequalities in the Cartesian plane.</p>	<p>Use junkanoo music to indicate transitions between activities.</p>	<p>Junkanoo music</p>
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**SUBJECT:** Mathematics

**GRADE:** 10 - 12

<b>Pacing Guide Week #</b>	<b>Topic (As displayed on the Pacing Guide)</b>	<b>Objectives (As outlined in the Curriculum)</b>	<b>Integration Strategy (Activities)</b>	<b>Resources</b>
Week <u>1</u> January 6-9, <b>2025</b>	<b>Matrices</b> <b><i>Mtx 10.1</i></b>	<b><i>Mtx 10.1.1</i></b> Use matrices to display data and solve problems.  <b><i>Mtx 10.1.2</i></b> Identify and define types of matrices.	Students will use matrices to describe the arrangements of the various sections in a junkanoo parade: dancers, drummers, horns, etc	Junkanoo pictures Information charts
Week <u>2</u> January 13-17, <b>2025</b>	<b>Matrices</b> <b><i>Mtx 10.1</i></b>	<b><i>Mtx 10.1.3</i></b> Use matrices to display data and solve problems.  <b><i>Mtx 10.1.4</i></b>	Students will identify the types of matrices made by the arrangements of the various sections in a junkanoo parade:	Pictures (printed or digital) Textbooks or worksheets

		Determine the compatibility of two matrices for addition and subtraction..	dancers, drummers, horns, etc	
Week <u>3</u> January 20-24, <b>2025</b>	<b>Matrices</b> <b><i>Mtx 10.1</i></b>	<b><i>Mtx 10.1.5</i></b> Add and subtract matrices  <b><i>Mtx 10.1.6</i></b> Multiply by a matrix by a scalar. ces	Junkanoo music will be used to indicate periods of transition.	Junkanoo music
Week <u>4</u> January 27-31, <b>2025</b>	<b>Matrices</b> <b><i>Mtx 10.1</i></b>	<b><i>Mtx 10.1.7</i></b> Solve simple matrix equations involving addition, subtraction, and scalar multiplication.	Students will create posters with the rules for the operations on matrices	Copy paper Pencils Crayons  <i>Optional</i> Markers Glitter Scissors glue