

BrainPOP + Orange USD EnVision Math Alignments: Grades 3-5



Grade 3	1
Topic 13: Perimeter	1
Topic 14: Area	2
Topic 15: Liquid, Volume, and Mass	2
Topic 16: Data	3
Grade 4	5
Topic 13: Extending Fraction Concepts	5
Topic 14: Measurement Units and Conversions	6
Topic 15: Solving Measurement and Data Problems	7
Topic 16: Lines, Angles, and Shapes	8
Grade 5	10
Topic 12: Volume of Solids	10
Topic 13: Units of Measure	10
Topic 14: Data	11
Topic 15: Classifying Plane Figures	12
Topic 16: Coordinate Geometry	13

**Grade 3
Trimester 3**

Topic 13: Perimeter

Standards	BrainPOP Jr. Activities	Conversation Starters	Additional BrainPOP Jr. Topics	BrainPOP Español Topics
<p>3.MD.D.8</p>	<p>BUILD KNOWLEDGE Perimeter</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Write About It Write a word problem that involves finding a perimeter. Challenge a classmate to solve it.</p>	<p>Discuss real-life situations where you would need to find the perimeter.</p>	<p>Area</p> <p>Inches and Feet</p>	<p>N/A</p>

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Topic 14: Area

Standards	BrainPOP Jr. Activities	Conversation Starters	Additional BrainPOP Jr. Topics	BrainPOP Español Topics
<p>3.MD.C.5a 3.MD.C.5b</p>	<p>BUILD KNOWLEDGE Area</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Write About It Find and compare the areas of two rugs.</p> <p>Use a Grid to Find Area Trace shapes onto grid paper to find their areas and perimeter.</p>	<p>Describe the relationship between area and perimeter.</p> <p>Discuss real-life situations where you would need to find an area.</p>	<p>Polygons</p> <p>Perimeter</p>	N/A

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Topic 15: Liquid, Volume, and Mass

Standards	BrainPOP Jr. Activities	Conversation Starters	Additional BrainPOP Jr. Topics	BrainPOP Español Topics
<p>3.MD.A.2</p>	<p>BUILD KNOWLEDGE Milliliters and Liters</p> <p>APPLY and ASSESS</p>	<p>Where have you seen measurements given in liters and milliliters in real life?</p>	<p>Grams and Kilograms</p> <p>Cups, Pints, Quarts, Gallons</p>	N/A

	<p>Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Classify Objects Identify which unit of volume is best for measuring each pictured container. Classify the objects by the unit.</p>			
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Topic 16: Data

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
<p>3.MD.B.3</p>	<p>BUILD KNOWLEDGE Tally Charts and Bar Graphs</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Record Survey Data Survey your classmates and create a</p>	<p>What can you infer about your classmates based on the data shown in your bar graph?</p> <p>Discuss with a partner how bar graphs can help us understand data.</p>	<p>Pictographs</p> <p>Science Projects</p>	<p>N/A</p>

	bar graph of the data.			
3.MD.B.4	<p>BUILD KNOWLEDGE Inches and Feet</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Measure Objects Measure the length of objects with and without a ruler. Then create a line plot to show measurements taken with a ruler.</p>	Describe a situation where it would be helpful to measure with a ruler.	Centimeters, Meters, Kilometers	N/A

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**Grade 4
Math
Trimester 3**

Topic 13: Extending Fraction Concepts

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
<p>4.NF.C.6 4.NF.C.7</p>	<p>BUILD KNOWLEDGE Converting Fractions to Decimals</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Make a Concept Map Use a number line to solve the following problem: Athlete A ran .2 of the race in five minutes and athlete B 75/100 of the race in that time. Explain who is in the lead, and how you know.</p>	<p>Brainstorm examples of how fractions and decimals are used differently in real life.</p>	<p>Decimals</p> <p>Comparing Decimals</p>	<p>Fracciones a Decimales (Fractions to Decimals)</p> <p>Decimales</p>

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Topic 14: Measurement Units and Conversions

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
4.MD.A.1	<p>BUILD KNOWLEDGE Metric Units</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Make-a-Movie Create and solve a word problem that involves meters and centimeters.</p>	Describe to a classmate how units in the metric system relate to the values of digits in the place value system.	<p>Customary Units</p> <p>Metric vs. Customary</p>	<p>Sistema Métrico Decimal (Metric Units)</p> <p>Unidades Inglesas (Customary Units)</p> <p>Sistema Métrico vs Imperial (Metric vs. Customary)</p>
4.MD.A.2	<p>BUILD KNOWLEDGE Multi-Step Word Problems</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Make-a-Movie Produce a movie about a situation where you would need to convert</p>	What reading strategies do you use when analyzing a word problem?	<p>Word Problems</p> <p>Adding and Subtracting Fractions</p>	<p>Problemas de Matemáticas (Word Problems)</p> <p>Suma y Resta de Fracciones (Adding and Subtracting Fractions)</p>

	between metric units. Explain how to solve the problem, and identify the solution.			
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Topic 15: Solving Measurement and Data Problems

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
4.MD.A.3	<p>BUILD KNOWLEDGE Area of Polygons</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Make-a-Movie Create a tutorial explaining how to measure the area of a rectangular room for carpeting.</p>	Discuss with a partner when you would need to find the area of a shape in real life.	<p>Polygons</p> <p>Surface Area</p>	<p>Área de los Polígonos (Area of Polygons)</p> <p>Polígonos (Polygons)</p> <p>Área de la Superficie (Surface Area)</p>
4.MD.B.4	<p>BUILD KNOWLEDGE Adding and Subtracting Fractions</p> <p>APPLY and ASSESS Quiz Check content knowledge and</p>	Brainstorm when you might add or subtract fractions in everyday life.	<p>Fractions</p> <p>Mixed Numbers</p>	<p>Suma y Resta de Fracciones (Adding and Subtracting Fractions)</p> <p>Fracciones</p>

	<p>essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Make-a-Movie Create a word problem where you would need to add or subtract fractions, and produce a tutorial explaining how to solve it.</p>			<p>(Fractions)</p> <p>Números Mixtos (Mixed Numbers)</p>
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Topic 16: Lines, Angles, and Shapes

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
<p>4.MD.C.5 4.MD.C.6 4.MD.C.7</p>	<p>BUILD KNOWLEDGE Angles</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Make a Concept Map Identify each component of an angle, and show how they are related.</p>	<p>Find and discuss examples of acute, obtuse, and right angles in your classroom.</p>	<p>Geometry</p> <p>Circles</p>	<p>Ángulos</p> <p>Geometría</p> <p>Círculos</p>

<p>4.G.A.1</p>	<p>BUILD KNOWLEDGE Parallel and Perpendicular Lines</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Make-a-Movie Produce a tutorial explaining how to determine whether two lines are parallel or perpendicular.</p>	<p>Find examples of parallel and perpendicular lines in your classroom.</p>	<p>Angles Geometry</p>	<p>Líneas Paralelas y Perpendiculares (Parallel and Perpendicular Lines)</p> <p>Ángulos Geometría</p>
<p>4.G.A.2 4.G.A.3</p>	<p>BUILD KNOWLEDGE Classifying Polygons</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Creative Coding Code a sorting game challenging players to sort triangles based on angle size.</p>	<p>Find examples of different types of polygons in your classroom.</p>	<p>Angles Parallel and Perpendicular Lines</p>	<p>Ángulos Líneas Paralelas y Perpendiculares (Parallel and Perpendicular Lines)</p>

**Grade 5
Trimester 3**

Topic 12: Volume of Solids

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
5.MD.C.3a 5.MD.C.3b 5.MD.C.4 5.MD.C.5c	<p>BUILD KNOWLEDGE Volume</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Make a Concept Map Produce a tutorial explaining how to find the volume of a rectangular fish tank.</p>	Why is volume measured in cubic units?	Multiplication Volume of Cylinders	Multiplicación Volumen de los Cilindros

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Topic 13: Units of Measure

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
5.MD.A.1	<p>BUILD KNOWLEDGE Metric Units</p>	Describe to a classmate how units in the metric system relate to the values of digits in the place value system.	Metric vs. Customary Multi-Step Word	Sistema Métrico Decimal (Metric Units)

	<p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Creative Coding Code a math problem that requires converting between metric units, then challenge a classmate to solve it.</p>		Problems	Sistema Métrico vs Imperial (Metric vs. Customary)
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Topic 14: Data

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
5.MD.B.2	<p>BUILD KNOWLEDGE Multiplying and Dividing Fractions</p> <p>APPLY and ASSESS Quiz Check content knowledge and essential literacy skills with an auto-graded assessment.</p> <p>DEEPEN and EXTEND Code a Math Problem</p>	Discuss real-life situations when it would be helpful to multiply or divide fractions.	Adding and Subtracting Fractions Graphs	https://esp.brainpop.com/matematicas/numeros_y_operadores/multiplicando_y_dividiendo_fracciones/ (Multiplying and Dividing Fractions) Suma y Resta de Fracciones (Adding and Subtracting Fractions)

	Code a real-world math problem that involves multiplying a fraction, and challenge a classmate to solve it.			Gráficas (Graphs)
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Topic 15: Classifying Plane Figures

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
5.G.B.3 5.G.B.4	<p>BUILD KNOWLEDGE Classifying Polygons</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Make a Concept Map Create a concept map identifying one way to sort quadrilaterals, with examples of shapes in each category.</p>	How does a rectangle compare to a square?	<p>Angles</p> <p>Parallel and Perpendicular Lines</p>	<p>Ángulos</p> <p>Líneas Paralelas y Perpendiculares (Parallel and Perpendicular Lines)</p>

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Topic 16: Coordinate Geometry

Standards	BrainPOP Activities	Conversation Starters	Additional BrainPOP Topics	BrainPOP Español Topics
5.G.A.1 5.G.A.2	<p>BUILD KNOWLEDGE Coordinate Plane</p> <p>APPLY and ASSESS Challenge and Quiz Check content knowledge and essential literacy skills with auto-graded assessments.</p> <p>DEEPEN and EXTEND Analyze a Primary Source Analyze the map and use what you know about the coordinate plane to answer the accompanying questions.</p>	Discuss real-world situations in which the coordinate plane would be helpful.	<p>Parallel and Perpendicular Lines</p> <p>Graphing Linear Equations</p>	<p>Plano Coordinado (Coordinate Plane)</p> <p>Líneas Paralelas y Perpendiculares (Parallel and Perpendicular Lines)</p> <p>Graficando Ecuaciones Lineales (Graphing Linear Equations)</p>

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