

**2014c Course 3  
Khan Academy Video Correlations  
By SpringBoard Activity**

SB Activity	Video(s)
<b>Unit 1: Numerical Relationships</b>	
	<b>Patterns</b>
<b>Activity 1</b> <i>Investigating Patterns</i> 1-1 Learning Targets: <ul style="list-style-type: none"><li>• Analyze simple sequences.</li><li>• Describe patterns in simple sequences and give the next terms in a sequence.</li></ul> 1-2 Learning Targets: <ul style="list-style-type: none"><li>• Analyze more complex sequences.</li><li>• Describe patterns in sequences and develop methods for predicting any term in a sequence</li></ul> 1-3 Learning Targets: <ul style="list-style-type: none"><li>• Understand increasing and decreasing sequences.</li><li>• Analyze sequences containing mathematical operations and those based on other patterns.</li></ul>	<a href="#"><u>Number patterns: Seeing relationships</u></a> <a href="#"><u>Number patterns: interpreting relationships</u></a> <a href="#"><u>Math patterns example 1</u></a> <a href="#"><u>Math patterns example 2</u></a>
<b>Activity 2</b> <i>Operations with Fractions</i> 2-1 Learning Targets: <ul style="list-style-type: none"><li>• Represent a real-world context with fractions.</li><li>• Simplify expressions involving fractions by adding and subtracting</li></ul> 2-2 Learning Targets: <ul style="list-style-type: none"><li>• Represent a real-world context with fractions.</li><li>• Simplify expressions involving fractions by multiplying and dividing.</li><li>• Write the reciprocal of a number.</li></ul>	<b>Adding and Subtracting Fractions</b> <a href="#"><u>Adding, subtracting fractions</u></a>  <b>Multiplying and Dividing Fractions</b> <a href="#"><u>Multiplying negative and positive fractions</u></a>
<b>Activity 3</b> <i>Powers and Roots</i> 3-1 Learning Targets: <ul style="list-style-type: none"><li>• Interpret and simplify the square of a number.</li><li>• Determine the square root of a perfect square</li></ul> 3-2 Learning Targets: <ul style="list-style-type: none"><li>• Interpret and simplify the cube of a</li></ul>	<b>Exponents</b> <a href="#"><u>Introduction to exponents</u></a> <a href="#"><u>Exponent example 1</u></a> <a href="#"><u>Exponent example 2</u></a>  <b>Roots</b> <a href="#"><u>Understanding square roots</u></a> <a href="#"><u>Finding cube roots</u></a>

<p>number.</p> <ul style="list-style-type: none"> <li>Determine the cube root of a perfect cube</li> </ul> <p>3-3 Learning Targets:</p> <ul style="list-style-type: none"> <li>Simplify expressions with powers and roots.</li> <li>Follow the order of operations to simplify expressions</li> </ul>	<p><b>Order of Operations</b></p> <p><a href="#">Introduction to order of operations</a></p> <p><a href="#">Order of operations example</a></p> <p><a href="#">Order of operations example: putting it all together</a></p>
<p><b>Activity 4</b></p> <p><i>Rational Numbers</i></p> <p>4-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>Model fractions graphically.</li> <li>Convert between fractions, decimals, and percents.</li> </ul> <p>4-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>Define and recognize rational numbers.</li> <li>Represent repeating decimals using bar notation.</li> <li>Convert a repeating decimal to a fraction.</li> </ul> <p>4-3 Learning Targets:</p> <ul style="list-style-type: none"> <li>Compare rational numbers in different forms.</li> <li>Represent repeating decimals using bar notation.</li> <li>Utilize various forms of rational numbers.</li> </ul>	<p><b>Converting Between Forms of Rational Numbers</b></p> <p><a href="#">Converting percent to decimal and fraction</a></p> <p><a href="#">Fraction to decimal</a></p> <p><a href="#">Converting fractions to decimals</a></p> <p><a href="#">Converting a fraction to a repeating decimal</a></p> <p><a href="#">Converting repeating decimals to fractions 1</a></p> <p><a href="#">Converting repeating decimals to fractions 2</a></p> <p><a href="#">Converting decimals to fractions 2 (ex 1)</a></p> <p><a href="#">Converting decimals to fractions 2 (ex 2)</a></p> <p><a href="#">Converting decimals to percents</a></p> <p><a href="#">Converting decimals to percents example 2</a></p> <p><a href="#">Converting percents to decimals</a></p> <p><a href="#">Converting percents to decimals example 2</a></p>
<p><b>Activity 5</b></p> <p><i>Rational and Irrational Numbers</i></p> <p>5-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>Differentiate between rational and irrational numbers.</li> <li>Approximate an irrational number in terms of a rational number</li> </ul> <p>5-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>Approximate an irrational number in terms of a rational number.</li> <li>Compare and order irrational and rational numbers.</li> </ul>	<p><b>Irrational Numbers</b></p> <p><a href="#">Introduction to rational and irrational numbers</a></p> <p><a href="#">Recognizing irrational numbers</a></p> <p><a href="#">Approximating irrational number exercise example</a></p>
<p><b>Activity 6</b></p> <p><i>Properties of Exponents</i></p> <p>6-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>Understand and apply properties of integer exponents.</li> <li>Simplify multiplication expressions with integer exponents.</li> </ul>	<p><b>Properties of Positive Exponents</b></p> <p><a href="#">Exponent properties involving products</a></p> <p><a href="#">Exponent properties involving quotients</a></p> <p><a href="#">Products and exponents raised to an exponent properties</a></p> <p><a href="#">Exponent rules part 1</a></p>

<ul style="list-style-type: none"> <li>Simplify division expressions with integer exponents.</li> </ul> <p>6-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>Understand and apply properties of integer exponents.</li> <li>Simplify expressions with negative exponents.</li> </ul> <p>6-3 Learning Targets:</p> <ul style="list-style-type: none"> <li>Understand and apply properties of integer exponents.</li> <li>Simplify expressions with zero as the exponent.</li> <li>Simplify expressions with exponents raised to a power.</li> </ul>	<a href="#"><u>Exponent rules part 2</u></a>  <a href="#"><u>Properties of Zero, Fractional, and Negative Exponents</u></a> <a href="#"><u>Negative exponents</u></a> <a href="#"><u>Zero, negative, and fractional exponents</u></a>
<b>Activity 7</b> <i>Scientific Notation</i> <p>7-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>Express numbers in scientific notation.</li> <li>Convert numbers in scientific notation to standard form.</li> <li>Use scientific notation to write estimates of quantities.</li> </ul> <p>7-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>Express numbers in scientific notation.</li> <li>Convert numbers in scientific notation to standard form.</li> <li>Compare and order numbers in scientific notation.</li> <li>Use scientific notation to write estimates of quantities.</li> </ul>	<b><i>Scientific Notation</i></b>  <a href="#"><u>Introduction to scientific notation</u></a> <a href="#"><u>Scientific notation</u></a> <a href="#"><u>Scientific notation examples</u></a> <a href="#"><u>Scientific notation example 1</u></a> <a href="#"><u>Scientific notation example 2</u></a>
<b>Activity 8</b> <i>Operations with Scientific Notation</i> <p>8-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>Multiply numbers expressed in scientific notation.</li> <li>Divide numbers expressed in scientific notation</li> </ul> <p>8-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>Add numbers expressed in scientific notation.</li> <li>Subtract numbers expressed in scientific notation.</li> </ul>	<b><i>Multiplying and Dividing in Scientific Notation</i></b>  <a href="#"><u>Multiplying and dividing in scientific notation</u></a> <a href="#"><u>Multiplying in scientific notation</u></a> <a href="#"><u>Multiplying in scientific notation example</u></a> <a href="#"><u>Dividing in scientific notation example</u></a>
<b>Unit 2: Equations</b>	
<b>Activity 9</b> <i>Writing Expressions</i> <p>9-1 Learning Targets:</p>	<b><i>Algebraic Expressions</i></b>  <a href="#"><u>What is a variable?</u></a> <a href="#"><u>Expression terms, factors, and coefficients</u></a>

<ul style="list-style-type: none"> <li>Identify and represent patterns using models, tables, and expressions.</li> <li>Write and evaluate algebraic expressions that represent patterns with constant differences.</li> </ul> <p>9-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>Identify patterns that do not have a constant difference.</li> <li>Write and evaluate algebraic expressions that represent patterns that do not have a constant difference.</li> </ul>	<b>Representing Patterns</b>
	<a href="#">Number patterns: Seeing relationships</a>
	<a href="#">Number patterns: interpreting relationships</a>
	<a href="#">Math patterns example 1</a>
	<a href="#">Math patterns example 2</a>
	<b>Writing Algebraic Expressions</b>
	<a href="#">Writing simple algebraic expressions</a>
	<a href="#">Writing algebraic expressions</a>
	<a href="#">Writing algebraic expressions word problem</a>
	<b>Evaluating Algebraic Expressions</b>
<b>Activity 10</b> <i>Solving Equations</i> 10-1 Learning Targets: <ul style="list-style-type: none"> <li>Solve linear equations with rational number coefficients.</li> <li>Solve linear equations by using the Distributive Property and collecting like terms.</li> </ul> 10-2 Learning Targets: <ul style="list-style-type: none"> <li>Use linear equations with one variable to model and solve real-world and mathematical problems.</li> <li>Solve linear equations with variables on both sides of the equation by using the Distributive Property and collecting like terms.</li> </ul>	<a href="#">Evaluating an expression example</a>
	<a href="#">Evaluating an expression using substitution</a>
	<b>Solving Linear Equations with Variables on Both Sides</b>
	<a href="#">Variables on both sides</a>
	<a href="#">Example 1: Variables on both sides</a>
	<a href="#">Example 2: Variables on both sides</a>
	<a href="#">Equation special cases</a>
	<a href="#">Ex 2: Multi-step equation</a>
	<b>Solving Equations Using the Distributive Property</b>
	<a href="#">Solving equations with the distributive property</a>
<b>Activity 11</b> <i>Exploring Slope</i> 11-1 Learning Targets: <ul style="list-style-type: none"> <li>Understand the concept of slope as the ratio <math>\frac{\text{change in } y}{\text{change in } x}</math> between any two points on a line.</li> <li>Graph proportional relationships; interpret the slope and the y-intercept <math>(0, 0)</math> of the graph.</li> </ul>	<a href="#">Solving equations with the distributive property 2</a>
	<a href="#">Ex 1: Distributive property to simplify</a>
	<a href="#">Ex 2: Distributive property to simplify</a>
	<a href="#">Ex 3: Distributive property to simplify</a>
	<b>Number of Solutions to a Linear Equation</b>
	<a href="#">Number of solutions to linear equations</a>
	<a href="#">Number of solutions to linear equations ex 2</a>
	<a href="#">Number of solutions to linear equations ex 3</a>
	<b>Slope</b>
	<a href="#">Slope of a line</a>
	<a href="#">Slope of a line 2</a>
	<a href="#">Slope of a line 3</a>
	<a href="#">Graphical slope of a line</a>
	<a href="#">Slope example</a>
	<b>y-intercepts</b>
	<a href="#">Interpreting intercepts of linear functions</a>

<ul style="list-style-type: none"> <li>• Use similar right triangles to develop an understanding of slope,</li> </ul> <p><b>11-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>• Understand the connections among proportional relationships, lines, and linear equations.</li> <li>• Graph proportional relationships; interpret the slope and the y-intercept (<math>0, y</math>) of graphs.</li> <li>• Examine linear relationships as graphs and as equations to solve real-world problems.</li> </ul>	<a href="#"><u>Interpreting linear functions example</u></a>
<p><b>Activity 12</b></p> <p><i>Slope-Intercept Form</i></p> <p><b>12-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>• Graph linear relationships represented in different forms.</li> <li>• Write an equation in the form <math>y = mx + b</math> to model a linear relationship between two quantities.</li> <li>• Interpret the meaning of slope and y-intercept in a problem context.</li> </ul> <p><b>12-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>• Compare different proportional relationships represented in different ways.</li> <li>• Graph linear relationships and identify and interpret the meaning of slope in graphs.</li> </ul> <p><b>12-3 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>• Derive equations of the form <math>y = mx</math> and <math>y = mx + b</math> from their graphs.</li> <li>• Graph linear relationships and identify and interpret the meaning of slope and y-intercept in graphs.</li> </ul>	<p><b>Graphing Linear Equations</b></p> <p><a href="#"><u>Graphing a line in slope intercept form</u></a></p> <p><b>Writing Linear Equations</b></p> <p><a href="#"><u>Multiple examples of constructing linear equations in slope-intercept form</u></a></p> <p><b>Interpreting Key Characteristics of Linear Functions</b></p> <p><a href="#"><u>Interpreting linear functions example</u></a></p> <p><a href="#"><u>Interpreting intercepts of linear functions</u></a></p>
<p><b>Activity 13</b></p> <p><i>Proportional Relationships</i></p> <p><b>13-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>• Represent linear proportional situations with tables, graphs, and equations.</li> <li>• Identify slope and y-intercept in these representations and interpret their meaning in real-life contexts.</li> </ul> <p><b>13-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>• Solve problems involving direct variation.</li> </ul>	<p><b>Linear Proportional Relationships</b></p> <p><a href="#"><u>Graphing proportional relationships example</u></a></p> <p><a href="#"><u>Graphing proportional relationships example 2</u></a></p> <p><a href="#"><u>Graphing proportional relationships example 3</u></a></p> <p><a href="#"><u>Constructing an equation for a proportional relationship</u></a></p> <p><b>Directly Proportional Relationships</b></p> <p><a href="#"><u>Analyzing proportional relationships from a table</u></a></p>

<ul style="list-style-type: none"> <li>Distinguish between proportional and nonproportional situations using tables, graphs, and equations</li> </ul>	<a href="#">Comparing proportional relationships</a>
<b>Activity 14</b> <i>Graphing Systems of Linear Equations</i> 14-1 Learning Targets: <ul style="list-style-type: none"> <li>Understand that solutions to systems of linear equations correspond to the points of intersection of their graphs.</li> <li>Solve systems of linear equations numerically and by graphing.</li> <li>Use systems of linear equations to solve real-world and mathematical problems.</li> </ul> 14-2 Learning Targets: <ul style="list-style-type: none"> <li>Convert linear equations into slope-intercept form.</li> <li>Solve systems of linear equations by graphing.</li> <li>Solve simple systems of linear equations by inspection.</li> </ul>	<a href="#">Solving Systems of Linear Equations Graphically</a> <a href="#">Solving linear systems by graphing</a> <a href="#">Solving systems graphically</a> <a href="#">Graphing systems of equations</a> <a href="#">Graphical systems application problem</a> <a href="#">Example 2: Graphically solving systems</a> <a href="#">Example 3: Graphically solving systems</a> <a href="#">Testing a solution for a system of equations</a>
<b>Activity 15</b> <i>Solving Systems of Linear Equations Algebraically</i> 15-1 Learning Targets: <ul style="list-style-type: none"> <li>Connect solutions to systems of linear equations to the points of intersection of their graphs.</li> <li>Solve systems of linear equations algebraically</li> </ul> 15-2 Learning Targets: <ul style="list-style-type: none"> <li>Write linear systems to solve real-world and mathematical problems.</li> <li>Solve systems of linear equations algebraically.</li> </ul>	<a href="#">Solving Linear Systems Algebraically: Substitution</a> <a href="#">The substitution method</a> <a href="#">Substitution method 2</a> <a href="#">Substitution method 3</a> <a href="#">Example 1: Solving systems by substitution</a> <a href="#">Example 2: Solving systems by substitution</a> <a href="#">Example 3: Solving systems by substitution</a> <a href="#">Practice using substitution for systems</a> <a href="#">Solving Linear Systems Algebraically: Elimination</a> <a href="#">Example 1: Solving systems by elimination</a> <a href="#">Example 2: Solving systems by elimination</a> <a href="#">Example 3: Solving systems by elimination</a> <a href="#">Addition elimination method 1</a> <a href="#">Addition elimination method 2</a> <a href="#">Addition elimination method 3</a> <a href="#">Addition elimination method 4</a>
	<a href="#">Applications of Linear Systems</a> <a href="#">Using a system of equations to find the price of apples and oranges</a> <a href="#">Linear systems word problem with substitution</a>

	<a href="#">Systems of equation to realize you are getting ripped off</a> <a href="#">Thinking about multiple solutions to a system of equations</a>
<b>Unit 3: Geometry</b>	
<b>Activity 16</b> <i>Angle-Pair Relationships</i> 16-1 Learning Targets: <ul style="list-style-type: none"><li>• Identify and determine the measure of complementary angles.</li><li>• Identify and determine the measure of supplementary angles.</li></ul> 16-2 Learning Targets: <ul style="list-style-type: none"><li>• Determine the measure of angles formed by parallel lines and transversals.</li><li>• Identify angle pairs formed by parallel lines and transversals.</li></ul>	<a href="#">Complementary and Supplementary Angles</a> <a href="#">Complementary and supplementary angles</a> <a href="#">Find measure of complementary angles</a> <a href="#">Find measure of supplementary angles</a> <a href="#">Angles formed by Parallel Lines and Transversals</a> <a href="#">Angles formed by parallel lines and transversals</a> <a href="#">Figuring out angles between transversal and parallel lines</a> <a href="#">Using algebra to find measures of angles formed from transversal</a>
<b>Activity 17</b> <i>Angles of Triangles and Quadrilaterals</i> 17-1 Learning Targets: <ul style="list-style-type: none"><li>• Describe the relationship among the angles of a triangle.</li><li>• Write and solve equations involving angles of a triangle.</li></ul> 17-2 Learning Targets: <ul style="list-style-type: none"><li>• Describe and apply the relationship between an exterior angle of a triangle and its remote interior angles.</li><li>• Describe and apply the relationship among the angles of a quadrilateral.</li></ul>	<a href="#">Angles in Triangles</a> <a href="#">Proof: Sum of measures of angles in a triangle are 180</a> <a href="#">Triangle angle example 1</a> <a href="#">Triangle angle example 2</a> <a href="#">Triangle angle example 3</a> <a href="#">Challenging triangle angle problem</a> <a href="#">Finding more angles</a>
<b>Activity 18</b> <i>Introduction to Transformations</i> 18-1 Learning Targets: <ul style="list-style-type: none"><li>• Recognize rotations, reflections, and translations in physical models.</li><li>• Explore rigid transformations of figures.</li></ul> 18-2 Learning Targets: <ul style="list-style-type: none"><li>• Determine the effect of translations on two-dimensional figures using coordinates.</li><li>• Represent and interpret translations involving words, coordinates, and symbols.</li></ul> 18-3 Learning Targets: <ul style="list-style-type: none"><li>• Determine the effect of reflections on</li></ul>	<a href="#">Translations and Coordinates</a> <a href="#">Translations of polygons</a> <a href="#">Determining a translation for a shape</a> <a href="#">Reflections and Coordinates</a> <a href="#">Reflection and mapping points example</a> <a href="#">Rotations and Coordinates</a> <a href="#">Rotation of polygons example</a> <a href="#">Performing a rotation to match figures</a> <a href="#">Rotating segment about origin example</a>

<p>two-dimensional figures using coordinates.</p> <ul style="list-style-type: none"> <li>Represent and interpret reflections involving words, coordinates, and symbols.</li> </ul> <p><b>18-4 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Determine the effect of rotations on two-dimensional figures using coordinates.</li> <li>Represent and interpret rotations involving words, coordinates, and symbols.</li> </ul>	
<p><b>Activity 19</b>  <i>Rigid Transformations and Compositions</i></p> <p><b>19-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Explore properties of translations, rotations, and reflections on two-dimensional figures.</li> <li>Explore congruency of transformed figures.</li> </ul> <p><b>19-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Explore composition of transformations.</li> <li>Describe the effect of composition of translations, rotations, and reflections on two-dimensional figures using coordinates.</li> </ul>	<p><b>Congruence and Transformations</b></p> <p><a href="#">Testing congruence by transformations example</a></p> <p><a href="#">Another congruence by transformation example</a></p>
<p><b>Activity 20</b>  <i>Similar Triangles</i></p> <p><b>20-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Identify similar triangles.</li> <li>Identify corresponding sides and angles in similar triangles.</li> </ul> <p><b>20-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Determine whether triangles are similar given side lengths or angle measures.</li> <li>Calculate unknown side lengths in similar triangles.</li> </ul>	<p><b>Exploring Similar Triangles</b></p> <p><a href="#">Testing similarity through transformations</a></p> <p><a href="#">Similar triangles</a></p>
<p><b>Activity 21</b>  <i>Dilations</i></p> <p><b>21-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Investigate the effect of dilations on two-dimensional figures.</li> <li>Explore the relationship of dilated figures on the coordinate plane.</li> </ul> <p><b>21-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Determine the effect of the value of the scale factor on a dilation.</li> </ul>	<p><b>Dilations</b></p> <p><a href="#">Thinking about dilations</a></p> <p><a href="#">Scaling down a triangle by half</a></p>

<ul style="list-style-type: none"> <li>Explore how scale factor affects two-dimensional figures on a coordinate plane.</li> </ul>	
<b>Activity 22</b> <i>The Pythagorean Theorem</i> 22-1 Learning Targets: <ul style="list-style-type: none"> <li>Investigate the Pythagorean Theorem.</li> <li>Understand and apply the Pythagorean Theorem.</li> </ul> 22-2 Learning Targets: <ul style="list-style-type: none"> <li>Investigate the Pythagorean Theorem.</li> <li>Find missing side lengths of right triangles using the Pythagorean Theorem.</li> </ul>	<b>Pythagorean Theorem Basics</b> <a href="#">The Pythagorean theorem intro</a> <a href="#">Pythagorean theorem</a> <a href="#">Pythagorean theorem 2</a>
<b>Activity 23</b> <i>Applying the Pythagorean Theorem</i> 23-1 Learning Targets: <ul style="list-style-type: none"> <li>Apply the Pythagorean Theorem to solve problems in two dimensions.</li> <li>Apply the Pythagorean Theorem to solve problems in three dimensions.</li> </ul> 23-2 Learning Targets: <ul style="list-style-type: none"> <li>Apply the Pythagorean Theorem to right triangles on the coordinate plane.</li> <li>Find the distance between points on the coordinate plane.</li> </ul>	<b>Applications of the Pythagorean Theorem</b> <a href="#">Pythagorean theorem 1</a> <a href="#">Pythagorean theorem 3</a> <a href="#">Thiago asks: How much time does a goalkeeper have to react to a penalty kick?</a> <a href="#">Pythagorean theorem in 3D</a>
<b>Activity 24</b> <i>Converse of the Pythagorean Theorem</i> 24-1 Learning Targets: <ul style="list-style-type: none"> <li>Explain the converse of the Pythagorean Theorem.</li> <li>Verify whether a triangle with given side lengths is a right triangle.</li> </ul> 24-2 Learning Targets: <ul style="list-style-type: none"> <li>Verify whether a set of whole numbers is a Pythagorean triple.</li> <li>Use a Pythagorean triple to generate a new Pythagorean triple.</li> </ul>	N/A
<b>Activity 25</b> <i>Surface Area</i> 25-1 Learning Targets: <ul style="list-style-type: none"> <li>Find the lateral and surface areas of rectangular prisms.</li> <li>Find the lateral and surface areas of triangular prisms.</li> </ul> 25-2 Learning Targets:	<b>Surface Area</b> <a href="#">Nets of polyhedra</a> <a href="#">Finding surface area: nets of polyhedra</a>

<ul style="list-style-type: none"> <li>Find the lateral area of cylinders.</li> <li>Find the surface area of cylinders.</li> </ul>	
<b>Activity 26</b> <i>Volumes of Solids</i> 26-1 Learning Targets: <ul style="list-style-type: none"> <li>Apply the formula for the volume of a prism.</li> <li>Apply the formula for the volume of a pyramid.</li> </ul> 26-2 Learning Targets: <ul style="list-style-type: none"> <li>Apply the formula for the volume of a cone.</li> <li>Apply the formula for the volume of a cylinder.</li> <li>Apply the formula for the volume of a sphere.</li> </ul> 26-3 Learning Targets: <ul style="list-style-type: none"> <li>Decompose composite solids into simpler three-dimensional figures.</li> <li>Find the volume of composite solids.</li> </ul>	<b>Volume</b> <a href="#">Find the volume of a triangular prism and cube</a> <a href="#">Cylinder volume and surface area</a> <a href="#">Volume of a cone</a> <a href="#">Volume of a sphere</a>
<b>Unit 4: Functions</b>	
<b>Activity 27</b> <i>Introduction to Functions</i> 27-1 Learning Targets: <ul style="list-style-type: none"> <li>Define relation and function.</li> <li>Evaluate functions.</li> </ul> 27-2 Learning Targets: <ul style="list-style-type: none"> <li>Understand that a function is a rule that assigns exactly one output to each input.</li> <li>Identify functions using ordered pairs, tables, and mappings.</li> </ul> 27-3 Learning Targets: <ul style="list-style-type: none"> <li>Define domain and range.</li> <li>Determine the domain and range of a relation.</li> </ul> 27-4 Learning Targets: <ul style="list-style-type: none"> <li>Identify functions using graphs.</li> <li>Understand the difference between discrete and continuous data.</li> </ul>	<b>What is a Function</b> <a href="#">What is a function?</a> <a href="#">Difference between equations and functions</a> <a href="#">Evaluating with function notation</a> <a href="#">Understanding function notation (example 1)</a> <a href="#">Understanding function notation (example 2)</a> <a href="#">Understanding function notation (example 3)</a> <b>Mapping Inputs and Outputs</b> <a href="#">Relations and functions</a> <a href="#">Testing if a relationship is a function</a> <b>Identifying Functions</b> <a href="#">Domain and range of a relation</a> <a href="#">Domain and range of a function</a> <a href="#">Domain and range 1</a> <b>Graphs of Functions</b> <a href="#">Graphical relations and functions</a> <a href="#">Domain and range from graphs</a>
<b>Activity 28</b> <i>Comparing Functions</i> 28-1 Learning Targets:	<b>Comparing Linear Functions</b> <a href="#">Comparing linear functions</a> <a href="#">Comparing linear functions 1</a>

<ul style="list-style-type: none"> <li>• Represent functions algebraically, graphically, tabularly, or verbally.</li> <li>• Compare properties of two or more functions.</li> </ul> <p>28-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>• Compare properties of two or more functions, each represented in a different way.</li> <li>• Identify examples of proportional and nonproportional functions.</li> </ul>	<a href="#">Comparing linear functions 2</a> <a href="#">Comparing linear functions 3</a>
<b>Activity 29</b> <i>Constructing Functions</i> <p>29-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>• Construct a function to model a linear relationship between two quantities.</li> <li>• Graph functions that model linear relationships.</li> </ul> <p>29-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>• Determine the rate of change and initial value of a function.</li> <li>• Interpret the rate of change and initial value of a linear function in terms of the situation it models.</li> <li>• Identify examples of proportional and nonproportional functions that arise from mathematical and real-world problems.</li> </ul>	<b>Constructing Functions</b>
<b>Activity 30</b> <i>Linear Functions</i> <p>30-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>• Model linear relationships between quantities using functions.</li> <li>• Identify and represent linear functions with tables, graphs, and equations.</li> </ul> <p>30-2 Learning Targets:</p> <ul style="list-style-type: none"> <li>• Identify linear and non-linear functions from tables, graphs, and equations.</li> <li>• Graph a linear function from a verbal description.</li> <li>• Understand that <math>y = mx + b</math> defines a linear equation.</li> </ul>	<b>Rate of Change</b> <a href="#">Slope and rate of change</a>
<b>Activity 31</b> <i>Linear and Non-Linear Functions</i> <p>31-1 Learning Targets:</p> <ul style="list-style-type: none"> <li>• Determine if a function is linear or non-linear.</li> <li>• Represent functions with tables, graphs,</li> </ul>	<b>Linear and Non-Linear Functions</b> <a href="#">Recognizing linear functions</a> <a href="#">Linear and nonlinear functions (example 1)</a> <a href="#">Linear and nonlinear functions (example 2)</a>

<p>and equations.</p> <ul style="list-style-type: none"> <li>Find a trend line to represent data.</li> </ul> <p><b>31-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Define, evaluate, and compare functions.</li> <li>Recognize patterns in non-linear functions.</li> <li>Represent functions with tables, graphs, and equations.</li> </ul> <p><b>31-3 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Recognize the relationship between verbal descriptions and graphs of linear and non-linear functions.</li> <li>Use a trend line to make predictions.</li> </ul>	<a href="#">Linear and nonlinear functions (example 3)</a>
<b>Unit 5: Probability and Statistics</b>	
<b>Activity 32</b> <i>Scatter Plots and Association</i> <p><b>32-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Make a scatter plot.</li> <li>Recognize patterns in scatter plots.</li> </ul> <p><b>32-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Recognize patterns in scatter plots.</li> <li>Describe association between two numerical variables in terms of direction, form and strength.</li> </ul>	<b>Scatter Plots</b> <a href="#">Constructing a scatter plot</a>
<b>Activity 33</b> <i>Bivariate Data</i> <p><b>33-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Collect bivariate data from an experiment.</li> <li>Summarize bivariate data in a scatter plot.</li> </ul> <p><b>33-2 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Informally fit a line to bivariate data.</li> <li>Use a trend line to make a prediction.</li> </ul> <p><b>33-3 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Interpret scatter plots.</li> <li>Use a trend line to make predictions.</li> </ul>	<b>Trend Lines</b> <a href="#">Interpreting a trend line</a> <a href="#">Estimating the line of best fit exercise</a>
<b>Activity 34</b> <i>Median-Median Line</i> <p><b>34-1 Learning Targets:</b></p> <ul style="list-style-type: none"> <li>Determine if a linear model is a good fit for a scatter plot.</li> <li>Find the median-median line for bivariate numerical data.</li> </ul> <p><b>34-2 Learning Targets:</b></p>	N/A

<ul style="list-style-type: none"><li>Find the median-median line for bivariate numerical data.</li><li>Use the median-median line to make predictions.</li></ul>	
<b>Activity 35</b> <i>Two-Way Tables and Association</i> 35-1 Learning Targets: <ul style="list-style-type: none"><li>Analyze two-way tables and find relative frequencies.</li><li>Construct segmented bar graphs to display association.</li></ul> 35-2 Learning Targets: <ul style="list-style-type: none"><li>Understand association between two categorical variables.</li><li>Describe association between two categorical variables.</li></ul>	<p><b>Two-Way Frequency Tables</b></p> <p><a href="#">Two-way frequency tables and Venn diagrams</a></p> <p><a href="#">Two-way relative frequency tables</a></p> <p><a href="#">Interpreting two way tables</a></p> <p><b>Investigating Association</b></p> <p><a href="#">Analyzing trends in categorical data</a></p>
<b>Unit 6: Personal Financial Literacy</b>	
<b>Activity 36</b> Managing Money	N/A