

## Grade 8 Math Year Plan 2019-2020

	Topics	Standards
<b>Quarter 1</b>  <b>Sept.2- Oct.31</b>	<p style="text-align: center;"><u><b>Real Numbers</b></u></p> <ul style="list-style-type: none"> <li>● Rational and Irrational Numbers</li> <li>● Sets of Real Numbers</li> <li>● Ordering of Real Numbers</li> </ul> <p style="text-align: center;"><u><b>Exponents and Scientific Notation</b></u></p> <ul style="list-style-type: none"> <li>● Integer Exponents</li> <li>● Scientific Notation with Positive Powers of 10</li> <li>● Scientific Notation with Negative Powers of 10</li> <li>● Operations with Scientific Notation</li> </ul>	<ul style="list-style-type: none"> <li>● 8.NS.1</li> <li>● 8.NS.2</li> <li>● 8.NS.3</li>   <li>● 8.EE.1</li> <li>● 8.EE.1</li> <li>● 8.EE.1</li> <li>● 8.EE.1</li> </ul>
<b>Quarter 2</b>  <b>Nov.3 – Jan.23</b>	<p style="text-align: center;"><u><b>Proportional Relationships</b></u></p> <ul style="list-style-type: none"> <li>● Representing Proportional Relationships</li> <li>● Rate of Change and Slope</li> <li>● Interpreting the Unit Rate as Slope</li> </ul> <p style="text-align: center;"><u><b>Non-Proportional Relationships</b></u></p> <ul style="list-style-type: none"> <li>● Representing Linear Non-Proportional Relationships</li> <li>● Determining Slope and Y-Intercept</li> <li>● Graphing Linear Non-Proportional Relationships Using Slope and Y-Intercept</li> <li>● Proportional and Non-Proportional Situations</li> </ul>	<ul style="list-style-type: none"> <li>● 8.EE.6</li> <li>● 8.EE.4</li> <li>● 8.EE.5</li>   <li>● 8.F.3</li> <li>● 8.EE.6</li> <li>● 8.F.4</li> <li>● 8.F.2</li> </ul>

<p>Quarter 3</p> <p>Feb.2– Mar.26</p>	<p><u>Transformations and Congruence</u></p> <ul style="list-style-type: none"> <li>● Properties of Translations</li> <li>● Properties of Reflections</li> <li>● Properties of Rotations</li> </ul> <p><u>Transformations and Similarities</u></p> <ul style="list-style-type: none"> <li>● Properties of Dilations</li> <li>● Algebraic Representation of Dilations</li> <li>● Similar Figures</li> </ul>	<ul style="list-style-type: none"> <li>● 8.G.1</li> <li>● 8.G.1</li> <li>● 8.G.1</li> <li>● 8.G.4</li> <li>● 8.G.3</li> <li>● 8.G.4</li> </ul>
<p>Quarter 4</p> <p>Apr.5 – Jun.11</p>	<p><u>Angle Relationships in Parallel Lines and Triangles</u></p> <ul style="list-style-type: none"> <li>● Parallel Lines Cut by a Transversal</li> <li>● Angle Theorems for Triangles</li> <li>● Angle-Angle Similarity</li> </ul> <p><u>Volume</u></p> <ul style="list-style-type: none"> <li>● Volume of Cylinders</li> <li>● Volume of Cones</li> <li>● Volume of Spheres</li> </ul>	<ul style="list-style-type: none"> <li>● 8.G.5</li> <li>● 8.G.5</li> <li>● 8.G.5</li> <li>● 8.G.9</li> <li>● 8.G.9</li> <li>● 8.G.9</li> </ul>

**Mission Statement:** Al-Bayan International School personalizes learning to achieve intellectual and individual growth of all students, empowering them to impact their community.