

# Principles of Algebra and Geometry

## Overview

Module	Suggested Date Range	Standards
Grade 7 Module 1: Topics D Ratio of Scale Drawing  Grade 7 Module 3: Topic C Use Equations and Inequalities to Solve Geometric Problems (Area and Circumference of Circle)  Grade 7 Module 4: Topic C Scale Drawing  Grade 7 Module 6: Topic C Slicing Solids	January – February	7.G.1, 7.G.3, 7.G.4
Grade 8 Module 2: Topics A, B, C Concept of Congruence  Grade 8 Module 3: Topics A,B	March – April	8.G.1a, 8.G.2, 8.G.5, 8.G.1b, 8.G.3, 8.G.1c, 8.G.4
Grade 8 Module 5: Topic B Volume  Grade 8 Module 7: Topic C Pythagorean Theorem  Grade 8 Module 7: Topic D Application of Radical and Roots	April – May	8.G.6, 8.G.7, 8.G.8, 8.G.9

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<p>Geometry Module 1: Topic A Basic Constructions</p> <p>Geometry Module 1: Topic B Unknown Angles</p> <p>Geometry Module 1: Topic C Transformations/Rigid Motions</p>	<p>May – June</p>	<p>G-CO.1,G-CO.8,G-CO.2, G-CO.9,G-CO.3,</p> <p>G-CO.10, G-CO.4, G-CO.11, G-CO.5, G-CO.12, G-CO.6, G-CO.13, G-CO.7</p>
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***See PAGE 3 for your January to June PACING***

## 9-12 MATHEMATICS - DIGITAL RESOURCES

	<b>Moby Max</b>	<b>IXL</b>
<b>Purpose</b>	Moby Max is designed to find and fix learning gaps using the power of personalized learning.	IXL is a targeted learning tool used to provide personalized action plans and links related to the academic progress and areas of need for each student.
<b>District Expectations</b>	<p>Every student will take the Moby Max</p> <p>Moby Max will be used to provide intervention in the areas where individual students are struggling.</p> <p>Moby Max may also be used to support grade level instruction.</p> <p>Moby Max covers content only through grade 8</p>	<p>IXL will be used as a district benchmark for all high school math courses <u>and</u> grade 8 Algebra during three identified testing windows: BOY (diagnostic), MOY (snapshot) and EOY (snapshot).</p> <p>Students must also work in IXL diagnostic arena for 10 minutes <u>each week</u> in order to keep their levels and recommendations up to date.</p>
<b>Available supports/webinars</b>	<a href="https://vimeo.com/mobymax">https://vimeo.com/mobymax</a>	<a href="https://www.ixl.com/userguides">https://www.ixl.com/userguides</a>

## PACING Plan for January 2023 – June 2023

*Please note that there will be times throughout the YEAR when you will either be embedding lessons from the previous grade level, omitting lessons at this grade level, and/or combining lessons at this grade level. This is all to ensure that our students have the foundational and grade level conceptual understanding to progress masterfully as the standards outline.*

<b>Principles of Algebra and Geometry</b>			
Quarter 3 - weeks	Quarter 3- days	January-June PACING	Instructional Notes
Week 21	1/30-2/3	G7 M1: Lessons 16-17, 18, 19-20	Combine lessons 16 and 17 (introduction to enlargement, reduction and scale) Combine lessons 19 and 20 (both scaling and area) Supplemental lessons video links:  <a href="#">Module 1 Lesson 16</a> <a href="#">Module 1 Lesson 17</a> <a href="#">Module 1 Lesson 18</a> <a href="#">Module 1 Lesson 19</a> <a href="#">Module 1 Lesson 19 (Part II)</a>
Week 22	2/6-2/10	G7M1: Lessons 21/22 G7M3: Lessons 16/17/18	Combine Lessons 21 and 22 (both lessons about changing scales) Combine 16 – 18 into 2 days (lesson 18 – review of 16 and 17)  Supplemental lesson video links: <a href="#">Module 1 Lesson 21</a> <a href="#">Module 1 Lesson 22</a> <a href="#">Module 3 Lesson 16</a> <a href="#">Module 3 Lesson 17</a> <a href="#">Module 3 Lesson 18</a>

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Week 23	2/13-2/17	G7:M3: Lesson 19,20 G7 M3: Lessons 23/24	Omit Lesson 21,22 (No Surface Area standard in Geometry) Combine 23 and 24 (Both lessons about volume) <b>Mid-Winter recess next week</b> Supplemental lesson video links: <a href="#">Module 3 Lesson 19</a> <a href="#">Module 3 Lesson 20</a> <a href="#">Module 3 Lesson 23</a> <a href="#">Module 3 Lesson 24</a>
Week 24	2/27-3/3	G7 M3: Lesson 25, 26 G7 M4: Lesson 12	Lesson 25 and 26 (Review volume omit Surface Area questions)  Supplemental lesson video links: <a href="#">Module 3 Lesson 25</a> <a href="#">Module 3 Lesson 26</a> <a href="#">Module 3 Lesson 26 (2)</a> <a href="#">Module 4 Lesson 12</a>
Week 25	3/6-3/10	G7 M4: Lesson 13/14, 15 G7 M6: Lesson 16/17	Combine lessons 13 and 14 (both lessons scaling length) Combine lessons 16 and 17 (Slicing 3-D figure) Skip 18 – topic included in lessons 16 and 17  Supplemental lesson video links: <a href="#">Module 4 Lesson 13</a> <a href="#">Module 4 Lesson 14</a> <a href="#">Module 4 Lesson 15</a> <a href="#">Module 6 Lesson 16</a> <a href="#">Module 6 Lesson 17</a>
Week 26	3/13-3/17	G7 M6: Lesson 19 G8 M2: Lessons 1/2, 3	Combine 1 and 2 (Both lessons about Introduction to Rigid Motions)  Supplemental lesson video links: <a href="#">Module 6 Lesson 19</a> <a href="#">Module 2 Lesson 1</a> <a href="#">Module 2 Lesson 2</a> <a href="#">Module 2 Lesson 3</a>

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Week 27	3/20-3/24	G8 M2: Lessons 4, 5, 6	Supplemental lesson video links: <a href="#">Module 2 Lesson 4</a> <a href="#">Module 2 Lesson 5</a> <a href="#">Module 2 Lesson 6</a>
Week 28	3/27-3/31	G8 M2: Lessons 7, 8, 9	<b>Spring Recess next week</b> Supplemental lesson video links: <a href="#">Module 2 Lesson 7</a> <a href="#">Module 2 Lesson 8</a> <a href="#">Module 2 Lesson 9</a>
Week 29	4/10 - 4/14	G8 M2 Lesson 10, 11, 12	Supplemental lesson video links: <a href="#">Module 2 Lesson 10</a> <a href="#">Module 2 Lesson 11</a> <a href="#">Module 2 Lesson 12</a>
Week 30	4/17 - 4/21	G8 M2 Lesson 13/14 G8 M3 Lesson 2/3, 4	Combine Lesson 13 and 14 (Both lessons about angles of triangles)  Omit Lesson 1 (Review of week 21 topics)  Combine Lesson 2 and 3 (Both lesson about Dilations)  Supplemental lesson video links: <a href="#">Module 2 Lesson 13</a> <a href="#">Module 2 Lesson 14</a> <a href="#">Module 3 Lesson 2</a> <a href="#">Module 3 Lesson 3</a> <a href="#">Module 3 Lesson 4</a>

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Quarter 4 - weeks	Quarter 4 - days	January - June PACING	Instructional Notes
Week 31	4/24 – 4/28	G8 M3 Lesson 5,6, 8/9	Omit Lesson 7 (informal proof of dilation) Combine Lesson 8 and 9 (Both lessons on similarity) <b>3.5 Instructional Days (ERD &amp; SCD)</b> Supplemental lesson video links: <a href="#">Module 3 Lesson 5</a> <a href="#">Module 3 Lesson 6</a> <a href="#">Module 3 Lesson 8</a> <a href="#">Module 3 Lesson 9</a>
Week 32	5/1 – 5/5	G8 M3 Lesson 10, 11 G8 M5 Lesson 9	Omit Lesson 12 (Extension of Lesson 11)  Supplemental lesson video links: <a href="#">Module 3 Lesson 10</a> <a href="#">Module 3 Lesson 11</a> <a href="#">Module 5 Lesson 9</a>
Week 33	5/8 – 5/12	G8 M5 Lesson 10, 11 G8 M7 Lesson 15/16	<b>3.5 Instructional Days (ERD &amp; SCD)</b> Combine 15 and 16 (Pythagorean theorem and its converse)  Supplemental lesson video links: <a href="#">Module 5 Lesson 10</a> <a href="#">Module 5 Lesson 11</a> <a href="#">Module 7 Lesson 15</a>

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			<a href="#">Module 7 Lesson 16</a>
Week 34	5/15 – 5/19	G8 M7 Lesson 17, 18, 19	Supplemental lesson video links:  <a href="#">Module 7 Lesson 17</a> <a href="#">Module 7 Lesson 18</a> <a href="#">Module 7 Lesson 19</a>
Week 35	5/22 – 5/26	G8 M7 Lesson 20, 21, 22	Supplemental lesson video links:  <a href="#">Module 7 Lesson 20</a> <a href="#">Module 7 Lesson 21</a> <a href="#">Module 7 Lesson 22</a>
Week 36	5/30-6/2	Geometry M1 Lesson 6,7,8	<b>4 Days (Off Mon. 5/29)</b> Supplemental lesson video links:  <a href="#">Module 1 Lesson 6</a> <a href="#">Module 1 Lesson 7</a> <a href="#">Module 1 Lesson 8</a>
Week 37	6/5-6/9	Geometry M1 Lesson 9,10,11	Supplemental lesson video links:  <a href="#">Module 1 Lesson 9</a> <a href="#">Module 1 Lesson 10</a> <a href="#">Module 1 Lesson 11</a>



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Week 38	6/12-6/16	Regents week
Week 39	6/20-6/23	Regents week Off Mon. 6/19