Unit 7 - Modeling with Equations \& Measurement 9 days of Block instruction
These standards expand in all Units of Geometry to reinforce real-world phenomena.

| Unit 7 | Geometry: Concepts and Connections Modeling with Equations and Measurement | Considerations or scaffolds for Support |
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| Day 1 | Standard(s): G.GSR.9.1; G.MP; G.MM.1.1; G.MM.1.4 <br> Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems including right and oblique solids <br> LT: <br> I am learning the volume formulas for three-dimensional right and oblique solids. <br> SC: <br> - I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. <br> - I can use and explain Cavalieri's Principle to find the volume of oblique solids. <br> - I can find the volume of composite solids to explain reallife phenomena. <br> Daily 10 Warm up- Which one does not belong? <br> Lesson/Activity: <br> Vocabulary <br> Guided notes <br> IXL skill plan <br> Delta Math- Volume of prisms and cylinders <br> Resources: <br> IXL, Delta Math, Vocabulary Wall, Calculators, Chromebook, Resources: <br> IXL, Delta Math, Vocabulary Wall, Calculators, Chromebook <br> Volume of Pyramids and Cone Instructional Learning Plan | Scaffolding throughout the lesson and applications will be provided for rigor. <br> Students will work in pairs for turn and talk. <br> Graphic organizers |


| Day 2 | Standard(s): G.GSR.9.1; G.MP; G.MM.1.1; G.MM.1.4 <br> Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems including right and oblique solids <br> LT: <br> I am learning the volume formulas for three-dimensional right and oblique solids. <br> SC: <br> - I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. <br> - I can use and explain Cavalieri's Principle to find the volume of oblique solids. <br> - I can find the volume of composite solids to explain reallife phenomena. <br> Daily 10 Warm up- Which one does not belong? <br> Lesson/Activity: <br> Vocabulary - <br> Guided notes <br> IXL skill plan <br> Delta Math- Volume of Pyramids and Cones <br> Resources: <br> IXL, Delta Math, Vocabulary Wall, Calculators, Chromebook, Volume of Pyramids and Cone Instructional Learning Plan Inspire- <br> Resources: <br> IXL, Delta Math, Vocabulary Wall, Calculators, Chromebook | Scaffolding throughout the lesson and applications will be provided for rigor. <br> Students will work in pairs for turn and talk. <br> Graphic organizers |
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| Day 3 | Standard(s): G.GSR.9.1; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4 <br> Use volume formulas for prisms, cylinders, pyramids, cones, and spheres to solve problems including right and oblique solids <br> LT: <br> I am learning to compare the volumes of various solids. <br> SC: <br> - I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. <br> - I can use and explain Cavalieri's Principle to find the volume of oblique solids. <br> - I can find the volume of composite solids to explain reallife phenomena. <br> - I can compare the volumes of various solids <br> Lesson/Activity: <br> Volume of Spheres and Volume of Composite Shapes <br> Guided Notes <br> IXL skill plan- C <br> Delta Math- volume of spheres and compound shapes Comparing Volumes Instructional Learning Plan <br> Inspire- <br> Resources: <br> Guided Notes, vocabulary wall, Delta Math, calculator, chrome book | Scaffolding throughout the lesson and applications will be provided for rigor. <br> Students will work in pairs for turn and talk. <br> Graphic organizers |
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| Day 4 | Standard(s): G.GSR.9.1; G.MP; G.MM.1.1; G.MM.1.4 <br> Use geometric shapes, their measures, and their properties to describe objects and approximate volumes. <br> LT: <br> I am learning to compare the volumes of various solids. <br> SC: <br> - I can use the formulas for volume of a prism, cylinder, pyramid, cone, and sphere. <br> - I can use and explain Cavalieri's Principle to find the volume of oblique solids. <br> - I can find the volume of composite solids to explain reallife phenomena. <br> - I can compare the volumes of various solids <br> Lesson/Activity: <br> Quiz Day <br> Resources: <br> Guided Notes, vocabulary wall, Delta Math, calculator, chrome book | Scaffolding throughout the lesson and applications will be provided for rigor. <br> Students will work in pairs for turn and talk. <br> Graphic organizers |
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| Day 5 | Standard(s): G.GSR.9.2; G.PAR.2.3; G.MP; G.MM.1.1; G.MM.1.4 <br> Use geometric shapes, their measures, and their properties to describe objects and approximate volumes. <br> LT: <br> I am learning to describe objects and approximate the volume of geometric shapes. <br> SC: <br> - I can choose the appropriate geometric solid to approximate volumes of irregular objects. <br> Lesson/Activity: <br> Guided Notes <br> Approximating Volumes of Irregular Objects Instructional Learning Plan <br> Inspire- <br> Resources: <br> Guided Notes, vocabulary wall, Delta Math, calculator, chrome book | Scaffolding throughout the lesson and applications will be provided for rigor. <br> Students will work in pairs for turn and talk. <br> Graphic organizers |
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| Day 6 | Standard(s): G.GSR.9.2; G.PAR.2.3; G.MP; G.MM.1.1; <br> G.MM.1.4 <br> Use geometric shapes, their measures, and their properties to describe objects and approximate volumes. <br> LT: <br> - I am learning to describe objects and approximate the volume of geometric shapes. <br> SC: |  |


|  | O I can choose the appropriate geometric solid to <br> approximate volumes of irregular objects. <br> Lesson/Activity: <br> "Load Calculation Project" <br> Resources: <br> Guided Notes, vocabulary wall, Delta Math, calculator, <br> chrome book |  |
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| Day 7 | Standard(s): G.GSR.9.3; G.MM.1.1; G.MM.1.4 <br> Apply concepts of density based on area and volume in <br> modeling situations. <br> LT: <br> o I am learning about density based on area and volume <br> formulas. |  |
| SC: <br> o I can choose the appropriate geometric figure or solid <br> to approximate the density of irregular objects |  |  |
| Lesson/Activity: <br> Surface Area of rectangular/triangular prism and cylinder <br> Guided Notes |  |  |
| IXL skill plan- <br> Delta Math- volume, density, and unit conversions. |  |  |
| Density Instructional Learning Plan <br> Inspire- <br> Resources: <br> Guided Notes, vocabulary wall, number diagram, Delta <br> Math, calculator, chrome book |  |  |


| Day 8 | Standard(s): G.GSR.9.3; G.MM.1.1; G.MM.1.4 | Scaffolding |
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|  | Apply concepts of density based on area and volume in modeling situations. | throughout the lesson and |
|  | LT: <br> - I am learning about density based on area and volume formulas. | applications will be provided for rigor. |
|  | SC: <br> I can choose the appropriate geometric figure or solid to approximate the density of irregular objects | Students will work in pairs for turn and talk. |
|  | Lesson/Activity: <br> Surface Area of rectangular/triangular prism and cylinder | Graphic organizers |
|  | Guided Notes |  |
|  | IXL skill plan- |  |
|  | Delta Math- volume, density, and unit conversions. |  |
|  | Resources: <br> Guided Notes, vocabulary wall, number diagram, Delta Math, calculator, chrome book |  |
| Day 9 | Test Day |  |
|  | Lesson/Activity: <br> Edulastic - Unit 7 Test - Equations \& Measurement |  |

