

| CONNEAUT AREA SCHOOL DISTRICT MATHEMATICS | | |
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| UNIT OF STUDY: Addition and multiplication with volume and area | COURSE/GRADE: 5 | # WEEKS: 6 |
| <ul style="list-style-type: none"> MODULE 5 | | |
| <p>Focus (emphasis) Standards/EC: CC.2.3.5.A.2 – Classify two-dimensional figures into categories based on understanding of their properties</p> <p>-Eligible Content: *M05.C-G.2.1.1: classify 2D figures in a hierarchy based on properties (All polygons have at least 3 sides, and pentagons are polygons, so all pentagons have at least 3 sides. A rectangle is a parallelogram, which is a quadrilateral, which is a polygon; SO, a rectangle can be classified as a parallelogram, as a quadrilateral, and as a polygon.)</p> <p>CC.2.3.5.A.5 – intentionally blank</p> | <p>Technology/manipulatives: (see Grade 5 Module 5 attachment for examples of usage)</p> <p><i>For Measurement/Volume:</i> Cubes, rulers (marked in standard or metric units), grid papers : http://illuminations.nctm.org?ActivityDetail.aspx?ID=6</p> <p><i>For 2D shapes:</i> Sets of 2D shapes; graphic organizers such as T-charts (compare and contrast attributes); rectangles and parallelograms. http://illuminations.nctm.org/LessonDetail.aspx?ID=L270</p> <p>Frayer Model graphic organizer (note-taking)</p> <p>Dry-erase boards, eno-board</p> <p>studyzone.org (resources and interactive practice) www.studyisland www.firstinmath.com xpmath.com</p> | |
| <p>Important (reinforced) Standards/EC:</p> <p>There are no standards currently aligned to this resource</p> | <p>Reading, writing, speaking strategies: Journaling, read aloud, lecture, word problems, persuasive/informational/expository writing, graphic organizers, Frayer model, cooperative learning, board work, demonstration, Think-Pair-Share, note-taking, crossword puzzles, , bell-ringers</p> | |
| <p>Vocabulary: Attribute, congruent, lateral face, parallel lines, perpendicular lines; acute, right, obtuse, equilateral, scalene, isosceles triangle; polygons: regular polygon, quadrilateral, pentagon, hexagon, heptagon, octagon, nonagon, decagon, parallelogram, rectangle, rhombus, trapezoid;</p> | <p>Questioning and discussion techniques: Bell-ringers; exit tickets; journals; Frayer Model; highlighting key terms; small group/ whole group; demonstrations; homework review; dry-erase checks</p> | |

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| <p>solid figures/three-dimensional figures: prism, pyramid, right rectangular prism, pentagonal prism, pentagonal pyramid, hexagonal prism, octagonal prism, decagonal prism; measurement systems, measurement unit volume, unit cube</p> | |
| <p>Real life application: Career options: http://www.xpmath.com/careers/topicsresult.php?subjectID=3&topicID=14</p> | <p>Performance assessment: http://www.sandi.net/Page/62252</p> |
| <p>Computation: Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real world and mathematical problems given the appropriate formula</p> <p>Classify 2D figures in a hierarchy based on properties</p> | <p>Accommodations/adaptations: Agendas, differentiation strategies, small group instruction, cooperative learning, guided practice, peer tutoring, limited problems/choices, manipulatives and models, clarity checks, diagrams and graphs</p> |
| <p>SAS Module Resources: pdesas.org *Teacher Tools-Curriculum Mapping-Instructional Frameworks Math-PA Standards: Focus and Important Standards * Math Cluster Matrix grades 4,5,6 (prior and future learning)</p> | |