

Central R-III Curriculum Form

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| Grade:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Subject/Unit of Instruction: Unit 1: <b>Tools of Geometry</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| Pacing:<br>12 days                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Priority Standard:</p> <p>G.CO.C.8; Prove theorems about lines and angles.</p> <p>G.GPE.B.3; Use coordinates to prove geometric theorems algebraically.</p> <p>G.MG.A.3; Apply geometric methods to solve design mathematical modeling problems.</p> <p>Supporting Standards: (MLS # only)</p> <p>G.CO.A.1; Define angle, circle, perpendicular line, parallel line, line segment and ray based on the undefined notions of point, line, distance along a line and distance around a circular arc.</p> <p>G.GPE.B.4; Prove the slope criteria for parallel and perpendicular lines and use them to solve problems.</p> <p>G.GPE.B.5; Find the point on a directed line segment between two given points that partitions the segment in a given ratio.</p> <p>G.GMD.B.3; Identify the shapes of two-dimensional cross-sections of three-dimensional objects.</p> <p>G.MG.A.1; Use geometric shapes, their measures and their properties to describe objects.</p> |  |
| <p>Learning Activities: <a href="https://drive.google.com/drive/folders/0B3dBWz81ye4SWEFHbjUzTjRqRzQ">https://drive.google.com/drive/folders/0B3dBWz81ye4SWEFHbjUzTjRqRzQ</a></p> <p>Learning Target 1: To visualize the surfaces of a three-dimensional object that are not visible in a two-dimensional drawing.</p> <p>Success Criteria (I can statement):</p> <ul style="list-style-type: none"> <li>Identify a solid from a net.</li> <li>draw a net from a solid.</li> <li>create an isometric and orthographic drawing.</li> </ul> <p>Learning Target 2: To understand basic terms and postulates of geometry.</p> <p>Success Criteria (I can statement):</p> <ul style="list-style-type: none"> <li>name points, lines, planes, segments and rays.</li> <li>find the intersection of two planes.</li> </ul> <p>Learning Target 3: To find and compare lengths of segments.</p> <p>Success Criteria (I can statement):</p> <ul style="list-style-type: none"> <li>use number operations to find and compare the lengths of segments.</li> <li>use the midpoint to find lengths of segments.</li> </ul> <p>Learning Target 4: To find and compare the measures of angles.</p> <p>Success Criteria (I can statement):</p> <ul style="list-style-type: none"> <li>use number operations to find and compare the measures of angles.</li> </ul> <p>Learning Target 5: To identify special angle pairs and use their relationships to find angle measures.</p> <p>Success Criteria (I can statement):</p> <ul style="list-style-type: none"> <li>identify geometric relationships to find angle measures.</li> </ul> <p>Learning Target 6: To find the midpoint of a segment and the distance between two points in the coordinate plane</p> <p>Success Criteria (I can statement):</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |

- Use formulas to find the midpoint and length of any segment in the coordinate plane.
- Learning Target 7: To find the perimeter or circumference and areas of basic shapes

Success Criteria (I can statement):

- find the perimeter and area of a basic shape.
- find the circumference and area of a circle.

Prerequisite (Prior Skills Set Needed) :

Squaring numbers

Simplifying Expressions

Evaluating Expressions

Finding Absolute Value

Solving Equations

Assessment Activities(Formal Assessments):

Drawing Quiz:

<https://drive.google.com/drive/u/0/folders/0B3dBWz81ye45TnIbnFOdjVpT3c>

Symbols Quiz:

<https://drive.google.com/drive/u/0/folders/0B3dBWz81ye45TnIbnFOdjVpT3c>

Chapter 1 Test:

<https://drive.google.com/drive/u/0/folders/0B3dBWz81ye45TnIbnFOdjVpT3c>

Academic Vocabulary:

Angle bisector, congruent segments, construction, isometric drawing, linear pair, net, orthographic drawing, perpendicular bisector, postulate, segment bisector, supplementary angles, vertical angles

Other Resources and Notes: