

EdGate Aligned Content  
 Grades: 9  
 States: Common Core State Standards

Sums of Vectors and Their Properties  
 Common Core State Standards

Mathematics  
 Grade: 9 - Adopted 2010

# EdGate Correlation Services Content Unit Report Sample

|                           |                                     |   |
|---------------------------|-------------------------------------|---|
| <b>STRAND / DOMAIN</b>    | <b>CCSS.Math.Content.HSN</b>        | Number and Quantity   |
| <b>CATEGORY / CLUSTER</b> | <b>CCSS.Math.Content.HSN-VM</b>     | Vector and Matrix Quantities  |
| <b>STANDARD</b>           | <b>CCSS.Math.Content.HSN-VM.A</b>   | Represent and model with vector quantities.   |
| <b>EXPECTATION</b>        | <b>CCSS.Math.Content.HSN-VM.A.1</b> | (+) Recognize vector quantities as having both magnitude and direction. Represent vector quantities by directed line segments, and use appropriate symbols for vectors and their magnitudes (e.g., $v$ , $ v $ ). |
| <b>EXPECTATION</b>        | <b>CCSS.Math.Content.HSN-VM.A.2</b> | (+) Find the components of a vector by subtracting the coordinates of an initial point from the coordinates of a terminal point.  |
| <b>EXPECTATION</b>        | <b>CCSS.Math.Content.HSN-VM.A.3</b> | (+) Solve problems involving velocity and other quantities that can be represented by vectors.  |

## Triangle Inequalities

Common Core State Standards

Mathematics

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|---------------------------|--------------------------------------|---|
| <b>STRAND / DOMAIN</b>    | <b>CCSS.Math.Content.HSG</b>         | Geometry  |
| <b>CATEGORY / CLUSTER</b> | <b>CCSS.Math.Content.HSG-CO</b>      | Congruence  |
| <b>STANDARD</b>           | <b>CCSS.Math.Content.HSG-CO.C</b>    | Prove geometric theorems  |
| <b>EXPECTATION</b>        | <b>CCSS.Math.Content.HSG-CO.C.10</b> | Prove theorems about triangles. Theorems include: measures of interior angles of a triangle sum to $180^\circ$ ; base angles of isosceles triangles are congruent; the segment joining midpoints of two sides of a triangle is parallel to the third side and half the length; the medians of a triangle meet at a point. |