

**Correlations  
between  
Specifications of  
Virginia Standards of Learning for Mathematics  
and  
Topics and Activities of  
Goldenrod's YouthTouch Technology Integration System**

**Provided as a Sample Only**  
**2 Math Strands: *Geometry* and *Patterns, Functions and Algebra***  
**Grade 5**

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The Virginia Standards of Learning for Mathematics identify five content strands for students in kindergarten through eighth grade. The five content strands are:

**Number and Number Sense**

**Computation and Estimation**

**Measurement**

**Geometry**

**Probability and Statistics**

**Patterns, Functions and Algebra**

In this correlation, those standards included in the Geometry strand and the Patterns, Functions and Algebra strand for grade five, have been mapped to the YouthTouch Topics and Activities which support them. This correlation is only a sample to demonstrate that YouthTouch supports the Virginia Standards of Learning. Correlations exist between YouthTouch and other Math strands, YouthTouch and the Standards of Learning for other core subject areas, and YouthTouch and the Standards of Learning for other grade levels.

### **Math Content Strand: Geometry:**

#### **Standard of Learning**

5.13 The student will classify angles and triangles as right, acute or obtuse.

#### **YouthTouch Topic: Activity #**

*Angles* 1

*Angles* 2

*Angles* 3

**See:** *Visualizing Angles* 1

**See:** *Estimating Angles* 1-4

#### **Standard of Learning**

5.14 The student will measure and draw right, acute and obtuse angles and triangles, using appropriate tools.

#### **YouthTouch Topic: Activity #**

*Angles* 4

*Angles* 5

#### **Standard of Learning**

5.15 The student will identify the ordered pair for a point and locate the point for an ordered pair in the first quadrant of a coordinate plane.

#### **YouthTouch Topic: Activity #**

*Coordinates* 1

*Coordinates* 2

*Coordinates* 3

*Coordinates* 4

*Coordinates* 5

*Coordinates* Extra for Experts

**See** *Graphing Results* 1

## **Math Content Strand: Patterns, Functions and Algebra**

### **Standard of Learning**

5.19 The student will investigate, describe, and extend numerical and geometric patterns, including triangular numbers, perfect squares, patterns formed by powers of ten, and arithmetic sequences. Concrete materials and calculators will be used.

#### **YouthTouch Topic: Activity #**

<i>Pattern Recognition</i>	1
<i>Pattern Recognition</i>	2
<i>Pattern Recognition</i>	3
<i>Pattern Recognition</i>	4
<i>Pattern Recognition</i>	Extra for Experts
<i>Graphing Results</i>	2
<i>Graphing Results</i>	Extra for Experts

### **Standard of Learning**

5.20 The student will

- \* investigate and describe the concept of variable.
- \* use a variable to represent a given verbal quantitative expression, involving one operation; and
- \* write an open sentence, using a variable to represent a given mathematical relationship.

#### **YouthTouch Topic: Activity #**

<i>Adding Algebraically</i>	1
<i>Adding Algebraically</i>	2
<i>Adding Algebraically</i>	3
<i>Adding Algebraically</i>	5
<i>Adding Algebraically</i>	Extra for Experts
<i>Friction</i>	3
<i>Work</i>	2
<i>Work</i>	5
<i>Ratios</i>	1

**See:** *Writing Equations* 1-3

### **Standard of Learning**

5.21 The student will create a problem situation based on a given open sentence using a single variable.

<i>Problem Solving</i>	
<i>Strategies</i>	4

**See:** *Graphing Results* Extra for Experts