

exhibits the similarity between them.

## Hattiesburg Public School District Grade 8 Mathematics Units 2015 – 2016



Unit C. Tuonaformations	Time Frame: 12 days (March 21 April 9)		
Unit 6: Transformations	Time Frame: 12 days (March 21 - April 8)		
Content Standards	Standards for Mathematical Practice		
Major Standards	(1) Make sense of problems and persevere in solving		
<b>8.G.1a</b> Verify experimentally the properties of rotations, reflections, and translations:	them.		
a. Lines are taken to lines, and line segments to line segments of the same length.	(2) Reason abstractly and quantitatively.		
	<ul><li>(3) Construct viable arguments and critique the reasoning of others.</li><li>(4) Model with mathematics.</li><li>(5) Use appropriate tools strategically.</li></ul>		
<b>8.G.1b</b> Verify experimentally the properties of rotations, reflections, and translations:			
b. Angles are taken to angles of the same measure.			
<b>8.G.1c</b> Verify experimentally the properties of rotations, reflections, and translations:	(6) Attend to precision.		
c. Parallel lines are taken to parallel lines.	(7) Look for and make use of structure.		
	(8) Look for and express regularity in repeated		
<b>8.G.2</b> Understand that a two-dimensional figure is congruent to another if the second	reasoning.		
can be obtained from the first by a sequence of rotations, reflections, and			
translations; given two congruent figures, describe a sequence that exhibits the	8.G.1 – MP 4, 5, 6, 7, 8		
congruence between them.	8.G.2 – MP 2, 4, 6, 7		
	8.G.3 – MP 3, 4, 5, 6, 7		
<b>8.G.3</b> Describe the effect of dilations, translations, rotations, and reflections on two-	8.G.4 – MP 2, 4, 5, 6, 7		
dimensional figures using coordinates.			
<b>8.G.4</b> Understand that a two-dimensional figure is similar to another if the second			
can be obtained from the first by a sequence of rotations, reflections, translations,			
and dilations; given two similar two-dimensional figures, describe a sequence that			



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### **Supporting Standards**

### **Additional Standards**

### **Pre-requisite Standards**

### 8.G.1a

- Explain and describe the process of transforming polygons.
- Name two-dimensional shapes.
- Use and understand the coordinate plane.

### 8.G.1b

- Explain and describe the process of transforming polygons.
- Name two-dimensional shapes.
- Use and understand the coordinate plane.

### 8.G.1c

- Explain and describe the process of transforming polygons.
- Name two-dimensional shapes.
- Use and understand the coordinate plane.

### 8.G.2

- Explain and describe the process of transforming polygons.
- Understand concepts of congruence and corresponding parts.

### 8.G.3

- Explain and describe the process of transforming polygons.
- Use and understand the coordinate plane.
- Understand concepts of congruence and corresponding parts.



# Hattiesburg Public School District Grade 8 Mathematics Units 2015 – 2016

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·	the process of transforming peepts of similar figures and cor	. •		
Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic	Lesson Topic	Lesson Topic	Lesson Topic	Lesson Topic
Review Transformations	Verify Properties of	Transforming Polygons	Sequence of	Formative Assessment
Standard Ref	Rotations, Reflections,	Standard Ref	Transformations	Lesson (FAL)
8.G.1	Translations	8.G.2	Standard Ref	Standard Ref
Resource/Strategy	Standard Ref	Resource/Strategy	8.G.2	8.G
https://docs.google.com/d	8.G.1	https://docs.google.com/d	Resource/Strategy	Resource/Strategy
ocument/d/1uM3pZuKUJu	Resource/Strategy	ocument/d/1uM3pZuKUJu	https://docs.google.com/d	Representing and
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cWIKkUapM8/edit	ocument/d/1uM3pZuKUJu	cWIKkUapM8/edit	gPiGKTLbQXvJAPt qod2PYi	Transformations
	gPiGKTLbQXvJAPt qod2PYi		cWIKkUapM8/edit	www.map.mathshell.com
	cWIKkUapM8/edit			
Lesson 6	Lesson 7			
Lesson Topic	Lesson Topic			
Effects of Dilation,	Understanding Similarities			
Reflection, Rotations,	of Polygons from a			
Translations on 2D	Sequence of			
Polygons	Transformations			
Standard Ref				
8.G.3	Standard Ref			
Resource/Strategy	8.G.4			



### Hattiesburg Public School District Grade 8 Mathematics Units 2015 – 2016

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Resource/Strategy
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ocument/d/1uM3pZuKUJu
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cWIKkUapM8/edit