

Hattiesburg Public School District Grade 6 Mathematics Units 2015 – 2016



Unit 7: Area & Volume of 2D & 3D Figures	Time Frame: 4 Weeks (Feb 8-March 4, 2016)
Content Standards	Standards for Mathematical Practice
Major Standards	(1) Make sense of problems and persevere in solving
	them.
Supporting Standards	(2) Reason abstractly and quantitatively.
6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and	(3) Construct viable arguments and critique the
polygons by composing into rectangles or decomposing into triangles and other	reasoning of others.
shapes; apply these techniques in the context of solving real-world and mathematical	(4) Model with mathematics.
problems.	(5) Use appropriate tools strategically.
	(6) Attend to precision.
6.G.2 Find the volume of a rectangular prism with fractional edge lengths by packing	(7) Look for and make use of structure.
it with unit cubes of the appropriate unit fraction edge lengths, and show that the	(8) Look for and express regularity in repeated
volume is the same as would be found by multiplying the edge lengths of the prisms.	reasoning.
Apply the formulas V=lwh and V=bh to find volumes of right rectangular prisms with	
fractional edge lengths in the context of solving real-world mathematical problems.	
6.G.4 Represent three-dimensional figures using nets made up of rectangles and	
triangles, and use the nets to find the surface area of these figures. Apply these	
techniques in the context of solving real-world and mathematical problems.	
Additional Standards	
Pre-requisite Standards	



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5.MD.5a Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.

5.MD.5b Apply the formulas $V = I \times W \times h$ 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.

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Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5
Lesson Topic: Finding area	Lesson Topic: Compose &	Lesson Topic: Finding	Lesson Topic: Finding	Lesson Topic: Identify Nets
of polygons using	Decompose Polygons	Volume (cubes)	Volume (formula)	of 3D figures
formulas.	Standard Ref: 6.G.1	Standard Ref: 6.G.2	Standard Ref: 6.G.2	Standard Ref: 6.G.4
Standard Ref: 6.G.1	Resource: Engage NY:	Resource:	Resource: EngageNy,	Resource: Engage NY:
Resource: EngageNy,	Module 5, Topic A,	www.https://learnzillion.c	Module 5, Topic C, Lessons	Module 5, Topic D,
Module 5, Topic A, Lesson	Lessons 4-6	om/lessonsets/221	11 & 12	Lessons 15, 16
1	www.https://learnzillion.c	Strategy:	Strategy:	https://learnzillion.com/le
Strategy: Allow students	om/lessonsets/148			sson_plans/222#fndtn-
to discover the formula.	Strategy:			lesson
				Strategy:
Lesson 6	Performance Task			



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Lesson Topic: Surface Area	https://grade6commoncor		
Standard Ref: 6.G.4	emath.wikispaces.hcpss.or		
Resource: Engage NY:	g/Unit+4+Geometry		
Module 5, topic D,			
Lessons 17, 18, & 19			
www.https://learnzillion.c			
om/lessonsets/278			
Strategy:			