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6-2016

6th Grade Math: Toro Dream House

Claudia Cardenas Trinity University, ccarden18@yahoo.com

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UNDERSTANDING BY DESIGN

Unit Cover Page

Unit Title: Toro Dream House

Grade Level: 6th Grade

Subject/Topic Area(s): Math

Designed By: Claudia Cárdenas

Time Frame: 8 days

School District: SAISD

School: Tafolla Middle School

School Address and Phone: 1303 W César E Chávez Blvd, San Antonio, TX 78207

Brief Summary of Unit

This unit's focus is on area and volume (specifically TEKS 6.8B, 6.8C, and 6.8D). Students will be building on their prior knowledge of areas of rectangles and squares by including trapezoids and triangles. Students will also be introduced to the beginnings of 3-dimensional objects and how the volume formulas come to be. Students will continue to practice with the volumes of rectangular prisms which are centered on multiplying length by width by height. They will also begin to discover that if the area of the base is known then height is what makes these shapes three-dimensional. Thus, students will be introduced to *V=Bh*. This unit will culminate in a performance assessment where students will draw their own dream house floor plans. Once they have determined the square footage of individual rooms and their overall home, students will then build a 3D model of what was designed on the floor plan. In this way, students will have the discussion about what it means to live in an urban society and how cities deal with expansion. Students will also discuss how financial and physical space constraints affect where individuals decide to live.

	Stage 1 – Desired Result	ts		
	Transfer			
	Students will independently use their learnin Understand urbanization and growth and h and underdeveloped area. How to work with financial and physical cor	ng to ow a civilization expands in both a developed nstraints.		
	M	eaning		
Established Goals (o.g.	Understandings Students will understand that	Essential Questions		
standards) TEKS:	 Area and volume have a critical impact on the development of a community 	What roles do area and volume play in everyday life?		
6.8B: Model area formulas for	 Known measurements can be 	How does area and volume affect a developing community/city?		
parallelograms, trapezoids, and triangles	manipulated to determine what is unknown.	How can you use what you know to find out what is unknown?		
by decomposing and rearranging parts of these	 Math is an efficient language that is used to effectively communicate 	What is the relationship between area and volume?		
shapes. 6.8C: Write equations that	spatial information.	How can we use math to communicate to others?		
represent problems	Acq	uisition		
represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers. 6.8D: Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers.	KnowledgeStudents will know1. The area formulas for parallelograms, trapezoids, and triangles: $A = bh$ $A = ½ h(b_1 + b_2)$ $A = ½ bh$ 2. The volume formula for right rectangular prisms: $V = lwh$ 3. How and why the volume formula for right rectangular prisms will now be referred to as: $V = Bh$ 4. How to determine what they know from a problem and use that to solve for what they do not know5. Understand that volume and area play a significant role in everyday life6. Cost and physical space affect where you can live	 Skills Students will be able to 1. use area and volume equations to solve real-world problems. 2. find the area of parallelograms, triangles, and trapezoids. 3. use equations to solve problems about area of rectangles, parallelograms, trapezoids, and triangles. 4. write equations to solve problems involving volume of right rectangular prisms. 5. use equations to solve problems involving area and volume. 6. determine the importance of order of operations when solving area formulas. 7. manipulate squares and rectangles to determine formulas for parallelograms/triangles. 8. understand the foundation of volume formulas when looking at the area of a base of a prism. 9. determine the cost per square foot of parallelograms. 		

Stage 2 – Evidence				
CODE (M or T)	Evaluative Criteria			
	(for rubric)			
Т	3D Model	Performance Task(s)		
		Students will demonstrate meaning-making and transfer by		
Т	Floor Plan	Creating a 3D model of their dream nome from a drawr	n floor plan using area and	
/		volume equations. Students will determine the total squ	ware footage of their nomes	
M/T	Math Proofs	Extension: Dro AD students will be given constraints suc	mouel.	
М	In-Class Work	footage that their house would have to remain under, in challenge.	n order to add an additional	
		Constraint 1: You have a \$90,000 loan to purchase a ho home be if it costs about \$40/ft ² (dollars per square foo	me. How big can your dream t)?	
		Constraint 2: You have \$120,000 loan to purchase a hor	me. How big can your dream	
		home be if it costs about \$100/ft ² (dollars per square fo	pot)?	
		Constraint 3: The plot of land you're building on is 500 f	ft ² . How can you follow the	
		space requirements of your property and still build you	r dream house?	
		Constraint 4: The plot of land you're building on is 1000	ft^2 . How can you follow the	
		space requirements of your property and still build you	r dream house?	
		Other Evidence (e.g. formative)		
	Other Evidence (e.g., formative)			
M		Fyit Tickets		
		Weekly Homework		
141				
		Stage 3 – Learning Plan		
CODE		Pre-Assessment		
(A, M, T)		How will you check students' prior knowledge, skill levels, and potential	misconceptions?	
A	Students have go	one over area of squares and rectangles in 5 th grade. Stude	nts will now be transitioning	
	from Area = leng	th x width to Area = base x height. Students will also need	to evaluate rational number	
	operations in the	eir formulas. The main form of pre-assessment throughout	the unit is through the Do-	
	Nows. Do-Nows	will contain problems that were taught in the previous less	son. Daily language will be	
	using base and h	eight, so that students become used to the new variables	b and h. Potential	
	misconceptions	will be addressed through progress monitoring, including: I	Do Nows, Checks for	
	Understanding, I	Exit Tickets, and Homework Assignments.		
	Students will also	b be given a Mini-Quiz as a pre-assessment to assess stude	nt strengths on multiplying	
	and dividing ratio	onal numbers, as well as solving one-step equations when	solving for a variable or when	
	given a variable and substituting it into the equation to solve. Results of this pre-assessment will be used			
	activities prepar	ed for them	שבחנג נוומג חפפט פוווונוווופוון	
	Learning Activiti	es	Progress Monitoring (e.g.	
	Day 1 – TFKS for	us: 6.8B	formative data)	
	Area of Quadrila	terals		
	-square, rectang	le, parallelogram		
т	Do Now: (5 min) Find the area of a rectangle with length 3.25 ft. and Check Do Now			
	width of 2.5 ft.			
	Introduce Essen	tial Question: What role does area play in everyday life?		
A	Discussion: (5 m	in) What do we know about area? Where do we see it in		

	our everyday life? What purpose does area have in our lives? Why do we	
	think area is important? Pass out Toro Dream House Assignment Sheet.	
	Go over the upcoming unit.	Check for Understanding
А	Investigative Strategy: (25 min) Students will be in pairs and given a	
	parallelogram cutout. Teacher will show a parallelogram example on the	
	Promethean board (if smartboard is not available, doc cam can also be	
	used with a physical parallelogram cutout). Teacher will ask about the	
	student's knowledge regarding the shape in front of them. Teacher will	
	then show on their own example how to cut a triangular niece from the	
	adage of the percellologram. Derthors will carefully out out the same piece	
	euge of the parallelogram. Farcher will cale how they can manipulate	
	on their own parallelogram. Teacher will ask now they can manipulate	
	this shape to create another popular shape. Students will determine that	
	this triangular piece can be moved to create a whole rectangle/square.	
M	Using the Area of Squares, Rectangles, and Parallelograms Notes half	
	sheet, the class will discuss how to find the area of a square and	
	rectangle. Through the visual example on the half sheet, students will	
	determine that if a parallelogram can be manipulated to create a	
	rectangle or square, then its area formula must also be the same.	Check for Understanding
	Ending Essential Question: How can you use known measurements to find	
	out an unknown? Will begin to be addressed in exit ticket.	
т	Exit Ticket: (5 min) How did we use what we know about squares and	Check Exit Ticket
	rectangles to determine the area formula for a parallelogram? Students	
	will turn in their response on a half sheet of paper.	
т	Homework: Weekly Math Homework 1 will be handed out. This double	Check HW on Friday
·	sided nage includes spiraled problems from previous lessons as well as	checknity on mady
	uncoming tonics that will be covered throughout the week	
	apcoming topics that will be covered throughout the week.	
	Day 2: TEKS Focus – 6 8B & 6 8D	
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_	Day 2: TEKS Focus – 6.8B & 6.8D Area of Quadrilaterals -trapezoids Students will be given <i>Area of Trapezoids Lesson page</i> as they walk in to class.	
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T A M/T	Day 2: TEKS Focus – 6.8B & 6.8D Area of Quadrilaterals -trapezoids Students will be given Area of Trapezoids Lesson page as they walk in to class. Do Now: (5 min) Find the area of the given parallelogram.	Check Do Now Check for Understanding Check I Do
T A M/T	Day 2: TEKS Focus – 6.8B & 6.8D Area of Quadrilaterals -trapezoids Students will be given Area of Trapezoids Lesson page as they walk in to class. Do Now: (5 min) Find the area of the given parallelogram.	Check Do Now Check for Understanding Check I Do
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	Day 3: TEKS Focus – 6.8B & 6.8D	
	Area of Triangles	
	Students will be given Area of Triangles Lesson page as they walk into	
	class.	
Т	Do Now: (5 min) Find the area of the trapezoid:	Check Do Now
	9 cm	
	14 cm	
	15 cm	
	Essential Question: How can you use what is known to find out what is	
	unknown? How do we use what we know about squares and rectangles to	
	determine the area formula for triangles?	
А	Lesson: (31 min) Begin lesson with a video (~6 min), the narrator goes	
	through the meaning of squared units and focuses on how to find the	
	area of triangles. START TIME: 4:17 (Teacher discretion on watching the	
	entire 10:26 video, which includes finding the area of squares and	
	rectangles.)http://mathantics.com/index.php/section/lesson/Area	
А	We Do: (15 min) Teacher leads class through two examples. Teacher	Check for Understanding
	shows students how to rewrite formula and substitute known	
	measurements into the formula and solve.	
M/T	I Do: (10 min) Students then work independently on four problems	Check I Do
, .	involving area of triangles. Two out of four problems break down the	
	problems into steps so students can practice the order to solve area of	
	triangles.	
т	Exit Ticket: (5 min) What are some similarities and differences in finding	Check Exit Ticket
	the area of squares, rectangles, and triangles? Students will answer their	
	exit ticket with their partner.	
Т	Homework: Students will continue to work on their Weekly Math	Check HW on Friday
	Homework 1.	
	<u>Day 4: TEKS Focus – 6.8C & 6.8D</u>	
	Solving Area Equations	
Т	Do Now: (5 min) Find the area of the triangle given a height of 4 cm. and	Check Do Now
	a base of 7 cm.	
	Essential Question : How can we use known measurements to find out	
	what is unknown? Introduce this question to the class as something to	
	keep in mind as the lesson is going on. This will be readdressed in the Exit	
	Ticket.	
A/M	Lesson: (35 min) Teacher leads through problems 1 & 2 on Solving Area	Check for Understanding
	Equations page (10 min). Students will then work on problems 3 – 5,	
	checking with their partner prior to asking questions of the teacher (15	
	min). Student volunteers will then work through each problem on the	
	promethean board (or on a paper under the doc cam) so students can	
	check their work (10 min).	Address Questions
Т	Exit Ticket: (5 min) Students will address the beginning Essential Question	Check Exit Ticket
	In the Exit Licket. How did we use what we knew in each problem to find	
	out what we didn't know? Students will answer this with their partner	
-	perore turning it in.	
Т	Homework: Students will continue to work on their Weekly Math	Check HW on Friday
	Homework 1.	

Day S: TERS Focus – 6.8C & 6.8D Solving Volume Equations T Do Now: (5 min) The area of a parallelogram is 240 m², if the height is 10 m, what is the length of the base? Essential Question: How do we use what we know to determine what we don't know? What roles does volume play in everyday life? Will be addressed through the introduction. A/M Lesson: (35 min) Teacher will show students a sheet of copy paper. Teacher will lead class through discussion. What have we learned about this shape? How do we find its area? Once it has been determined that it is a 2D rectangle, take out a stack of copy paper. Put it all on a desk in the front. Lead class through investigative strategy. What have we done now to the stack, but what is different? HEIGHT1 The topic of today is determining the volume of 3D rectangular prisms. Discussion of the role volume has on everyday life. Why is it important to know a volume of a structure? What about buildings in a city? (5 min). Teacher will work through problems 3.8.2 on Solving Volume Equations page (10 min). Students will then work through problems 3.5. Checking with their partners before asking the teacher questions (15 min). Student volume for copy under the doc cam) so that students can check their work (5 min). Students will answer the exit ticket and turn it in. Address Questions T Do Now: (5 min) Find the volume of a arctangular prism, given the height is 12.5 ft., the width is 3.2 ft., and the length is 5.7 ft. Grade HW Day 6: TEKS Focus – 6.8C & 6.8D Toro Dream House Floor Plan Check Do Now T Do Now: (5 min) Find the volume of a structure? What a bea sone affect a developing community/city?			
 Solving Volume Equations T Do Now: (5 min) The area of a parallelogram is 240 m². If the height is 10 m, what is the length of the base? Essential Question: How do we use what we know to determine what we don't know? What roles does volume play in everyday life? Will be addressed through the introduction. A/M Lesson: (33 min) Teacher will show students a sheet of copy paper. Teacher will lead class through discussion. What have we leared about this shape? How do we find its area? Once it has been determined that it is a 20 rectangle, take out a stack of copy paper. Put it all on a desk in the front. Lead class through investigative strategy. What have we done now to the sheet of paper? We still know how to find the area of the top and the bottom of the stack, but what is different? HEIGHTI The topic of today is determining the volume of 30 rectangular prisms. Discussion of the role volume has on everyday life. Why is it important to know a volume of a structure? What about buildings in a city?(5 min). Teacher will work through problems 3 - 2, shecking with their partners before axing the teach questions (15 min). Students will then work through problems 3 - 5, checking with their partners before axing the teach cargustor (15 min). Students will turn in Weekly Math Homework 1. T Homework: Students will turn in Weekly Math Homework 1. T Do Now: (5 min) Find the volume of a rectangular prism, given the height is 12.5 ft., the width is 3.2 ft. a chait height is 5.7 ft. Essential Question: How does area offect a developing community/city? M/T Lesson: (10 min) Discussion (5 min) What happens if you want a really big house in the middle of downtom? Is it likely? Why or why not? What are some prox/cons? After the discussion, teacher will introduce the assignment. Pass out Toro Dream House Floor Plan Activity Sheet and Rubric. "For the next three days, we are going to bo is draw out our floor plan. Here		<u>Day 5: TEKS Focus – 6.8C & 6.8D</u>	
T Do Now: (5 min) The area of a parallelogram is 240 m². If the height is 10 m, what is the length of the base? Check Do Now Essential Question: How do we use what we know to determine what we don't know? What roles does volume play in everyday life? Will be addressed through the introduction. Check Do Now A/M Lesson: (13 min) Teacher will show students a sheet of copy paper. Check for Understanding Teacher will ead dass through discussion. What have we learned about this shape? How do we find its area? Once it has been determined that it is a 20 rectangle, take out a stack of copy paper. Put it all on a desk in the front. Lead class through investigative strategy. What have we done now to the bottom of the stack, but what is different PtiCiGHT The tropic of today is determining the volume of 3D rectangular prisms. Discussion of the role volume has on everyday life. Why is it important to know a volume of a structure? What about buildings in a city? (Smin). Teacher will work through problems 3 - 5, checking with their partners before asking the teacher questions (15 min). Student volunteers will then work through problems 3 - 5, checking with their come? Students will answer the exit ticket and turn it. Address Questions T Homework: Students will answer the exit ticket and turn it. Grade HW Day 6: TEKS Focus - 6.8C & 6.8D Toro Dream House Floor Plan Grade HW T Homework: Students will answer he subtros of town? What are as ome pros/cons? After the discussion, teacher will introduce the assignment. Pass out Toro Dream House Floor Plan Activity Skeet and Rubric. "For the next three days, we are going to be		Solving Volume Equations	
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Essential Question: How do we use what we know to determine what we don't know? What roles does volume play in everyday life? Will be addressed through the introduction. Check for Understanding A/M Lesson: (13 min) Teacher will show students a sheet of copy paper. Check for Understanding Teacher will lead class through inscription? Teacher will ead class through inscription? Check for Understanding is a 2D rectangle, take out a stack of copy paper. Put it all on a desk in the front. Lead class through investigative strategy. What have we done now to the sheat of paper? We still know how to find the area of the top and the bottom of the stack, but what is different? HEIGHT1 The topic of today is determining the volume of 3D rectangular prism. Discussion of the role volume has on everyday life. Why is it important to know a volume of a structure? What about buildings in a city(5 min). Teacher will work through problems 3 = 5, checking with their partners before asking the teacher questions (15 min). Student volunteers will then show their work on the promethean board (or on a physical copy under the doc cam) so that students can check their work (5 min). Address Questions T Exit Ticket: (5 min) How diw use area to discover the formulo for wolume? Students will answer the exit ticket and turn it. Grade HW Day 6: TEKS Focus – 6.8C: & 6.8D Toro Dream House Floor Plan Grade HW Check Do Now T Homework: Students will support the suburbs of town? What are some pros/cons? After the discussion, teacher will introduce the assignment. Pass out Toro Dream House Floor Plan Activity Sheet and Rubric. "for		m, what is the length of the base?	
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be building 3D models of these floor plans using foam (card) board and		be building 3D models of these floor plans using foam (card) board and	
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paper.com/)Make sure you include your measurements of length and width of each room because you will be writing the square footage (area		game room, a norary, or poor, it can be designed any way your field to a second s	
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I that has teet as units) of each room. Then once that is completed, we will		that has feet as units) of each room. Then once that is completed, we will	
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that has feet as units) of each room. Then once that is completed, we will be building 3D models of these floor plans using foam (card) board and		that has feet as units) of each room. Then once that is completed, we will be building 3D models of those floor plans using form (cord) board and	

	toothpicks! We have rulers, colored pencils, crayons, and markers that	
	you can use for your floor plan. Do we have any question on our	
	assignment for today?"	
	*Pre-AP: Students will be given 1 out of 4 Constraint Cards dealing with	
	financial or physical space constraints that they have to keep in mind	
	when building their dream homes. Requirements are still the same; they	
	also have this additional challenge to incorporate into their homes. *	
	Show two YouTube videos:	
	Video 1: <u>https://www.youtube.com/watch?v=OzLESnqNhVU</u> Time: 2:14	
	Video 2: https://www.youtube.com/watch?v=lmG6MymEKyM Time: 4:19	
	Students can then ask clarifying questions and begin work on their floor	
	plans (20 min). At the end of the class, students will turn in their floor	Check for Understanding
	plan.	
Т	Exit Ticket: (5 min) Explain why you chose to design your dream home	Check Exit Ticket
	the way you did. Did the grid paper's size affect how many creative rooms	
	you could put in your dream home? Students will answer these questions	
	at the end of their Toro Dream House Floor Plan Activity sheet.	
Т	Homework: Weekly Math Homework 2 will be passed out.	Check HW on Friday
	<u>Day 7: TEKS Focus – 6.8C & 6.8D</u>	
	Toro Dream House 3D Model Work Day 1	
	Essential Question: How does volume affect a developing	
	community/city? How can we use math to communicate to others?	
Т	Lesson: (10 min) Discussion of Essential Question. If we are in the middle	
	of downtown and we want to add room to a building, how would we do	
	it? What about the difference in volumes from inner city buildings and	
	suburbs outside of a city? Why is drawing a floor plan important in the	
	way architects communicate to their construction workers?	
	Teacher will then return floor plans to students. If their floor plans have	
	been cleared for building, students will begin to make their 3D model of	
	their floor plan. (Students that are not cleared will be given 10 minutes to	
	finish before moving on to building.) Teacher will pass out Toro Dream	
	House 3D Model Activity.	
	Materials (depending on budget):	
	-Foam Board/Cardboard	
	-Toothpicks	
	-Bamboo skewers	
	-Hot glue	
	-Clay (to put on ends of toothpicks)	
	-Markers, Crayons, Colored Pencils	
	-Rulers	
	Building: (30 min) Students will be advised to work on their model from	
	the inside out, meaning the walls of the interior rooms will be built before	
	building the exterior wall of their house. Any multi-story home will be	
	done on individual foundation boards, labeled with specific floors. There	
	is also the potential to place floors on top of each other AFTER teacher	
-	has noted the completion of the required rooms in the 3D Model.	Check for Understanding
I	Exit licket: (5 min) Show students pictures of a neighborhood in San	Check Exit Ticket
	Francisco and a suburb neighborhood outside of San Antonio. Students	
	will write about the differences they see and now the area affects the	
	volume of the nouses that are built in each location. Where would they	
	rather liver in a nustling, bustling city or a quiet, secluded heighborhood?	
	Explain reasoning.	

	<image/>	
	Day 8: TEKS Focus – 6.8C & 6.8D	
	Students will continue to work on their models. Teacher will pass out <i>Toro</i>	
	Dream House Checklist. Student will use this to double check that they	
	have turned in all of the requirements for the final grade. The checklist,	
	all be stapled and turned in when final project is completed.	
т	Exit Ticket: (10 min) Final discussion of completed project. Students will answer the final question at the bottom of their <i>Toro Dream House</i> 3D Model Activity sheet. Why did they choose to huild their model that way?	Check Exit Ticket
	Are there any adjustments/improvements that would be done if you did	
	this project again? Once everyone has had time to write a response,	
	student volunteers will show their model and explain the answers to	
	3D model activity sheet, floor plan activity sheet, floor plan, and their in-	Grado Brajacta
	class notes (if they haven't already).	Grade Projects



Now, let's start designing!

i

Teacher Example on board or through doc cam:



Area of a Parallelogram Formula: The area A of a parallelogram is the product of its base b and height h.





Weekly Math Homework 1

AREA	
Triangle	$A = \frac{1}{2}bh$
Rectangle or parallelogram	A = bh
Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$

* Find the area of each figure:

































Name:____

Period:_____

TEKS 6.8B, 6.8D – Area of Trapezoids



TEKS 6.8B, 6.8D – Area of Trapezoids



Day 3

Period:

Name:_______TEKS 6.8B, 6.8D – Area of Triangles



TEKS 6.8B, 6.8D – Area of Triangles



<u>Day 4</u>

Name:	_ Date:	_ Period:	
TEKS: 6 8C: Solving Area Equations	AREA		
	Triangle		$A = \frac{1}{2}bh$
	Rectangle or parallelogram		A = bh
	Trapezoid		$A = \frac{1}{2}(b_1 + b_2)h$

1)

A window shaped like a parallelogram has an area of $18\frac{1}{3}$ square feet. The height of the window is $3\frac{1}{3}$ feet. How long is the base of the window?

- Step 1: Write the formula
- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable

2)

A garden in the shape of a trapezoid has an area of 44.4 square meters. One base is 4.3 meters and the other base is 10.5 meters long. The height of the trapezoid is the width of the garden. How wide is the garden?



- Step 1: Write the formula
- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable

3)

A triangular sail has a base length of 2.5 meters. The area of the sail

- is 3.75 square meters. How tall is the sail?
- •
- Step 1: Write the formula
- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable
- 4) The cross section of a water bin is shaped like a trapezoid. The bases of the trapezoid are 18 feet and 8 feet long. It has an area of 52 square feet. What is the height of the cross section?
 - Step 1: Write the formula
 - Step 2: Substitute the variables with the given values
 - Step 3: Solve for the unknown variable

5) The Hudson High School wrestling team just won the state tournament and has been awarded a triangular pennant to hang on the wall in the school gymnasium. The base of the pennant is 1.5 feet long. It has an area of 2.25 square feet. What is the height of the pennant?

• Step 1: Write the formula



- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable

_____ Date: _____ Period: _____ Name:

TEKS: 6.8C, 6.8D: Solving Volume Equations



1) Find the volume of this rectangular prism.

Step 1: Write the formula •



- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable

2)

Find the height of this shape, which has a volume of $\frac{15}{16}$ cubic feet.

- Step 1: Write the formula
- Step 2: Substitute the variables with the given values





3) Find the volume of this rectangular prism.

- Step 1: Write the formula
- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable

4) Find the width of the rectangular prism.

- Step 1: Write the formula
- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable

5) An aquarium holds 33.75 gallons of water. It has a length of 2 feet and a height of 1.5 feet. What is the volume of the aquarium? What is the width of the aquarium?

- Step 1: Write the formula
- Step 2: Substitute the variables with the given values
- Step 3: Solve for the unknown variable





Toro Dream House Rubric

Grading	Not Present or	<u>Limited</u>	Complete &	<u>Detailed, Extra</u>	Points Earned*
Criteria	<u>Little</u>	Information	<u>Total</u>	Information	*potentially 10
	Information		<u>Information</u>		extra credit
					points
Scale Model	(0-7)	(8-15)	(16-25)	(26)	
-mirrored from	Scale model does	Scale model partially	Scale model	Scale model	
floor plan	not mirror what	mirrors what was	completely	completely mirrors	
-deals with	was drawn on the	drawn on floor plan,	mirrors what was	what was drawn	
Constraint Card	floor plan, either	either because it has	drawn on the	on the floor plan.	
	because it has	not been finished or	floor plan.	Plus, the model	
	started or because	follow the floor		components such	
	it does not follow	nlan		as: furniture color	/25 points
	the floor plan.	piun.		décor.	,
Floor Plan	Floor plan has not	Floor plan has been	Floor plan has	Floor plan has	
-kitchen	been completed	partially completed,	been completed,	been completed,	
-dining room	at all. Rooms may	missing some length	including length	including length	
-bathroom	be individually	and width	and width	and width	
-hedroom	drawn, but are	measurements in	measurements of	measurements of	
-livina room	missing length and	each room. Rooms	each room.	each room. Rooms	
-aaraae	width	may not have been	Rooms nave been	nave been labeled,	
-backvard	and individual	or may have missed	the area of each	of each room. The	
-creative rooms	room areas	the areas of each	room	floor plan has also	
-deals with		room.		been colored and	
Constraint Card				decorated, possibly	
				including furniture.	/25 points
Mathematical	(0-5)	(6-10)	(11-15)	(16)	
Proofs	None of the	One of the Activity	Both the <i>Toro</i>	Both the Toro	
-Areas of each	activity sheets	sheets is turned in.	Dream House	Dream House Floor	
room	in One activity	Both activity sneets	FIGOR Plan Activity	the Tere Dream	
-Volumes of	sheet was turned	in but they are	Dream House 3D	House 3D Model	
each room	in, but mostly	halfway completed	Model Activity has	Activity has been	
	incomplete.	with areas and	been turned in	turned in including	
		volumes of	with completed	the areas and	
		individual rooms.	areas and volumes	volumes of their	
			of individual	additional rooms.	/25 points
	Student has	Student has turned	rooms.	Student besturned	•
in-Class Work	turned in none or	in $3-4/5$ of the in-	turned in 5/5 of	in 5/5 of the in-	
-Daily notes	1-2/5 of the in-	class notes.	the in-class notes	class notes.	
-Do Nows	class notes,	including Do Nows	including Do Nows	including Do Nows	
-EXIT LICKETS	including Do Nows	and Exit Tickets.	and attempted	and had well	
	and Exit Tickets.		the Exit Tickets.	thought out Exit	/25 points
				Ticket responses.	
Project is Turned in On Time				/6 points	
Total Points Earned (out of 100 points):					

<u>Day 6</u>

Ν	а	m	e	
	•••		-	-

Score:_____ Period:_____

TORO DREAM HOUSE FLOOR PLAN ACTIVITY

Title:	• • • • • • • • • • • • • • • • • • • •	
	<complex-block></complex-block>	SE
After drawing your dream house area formulas on your STAAR C	floor plan, determine the area hart:	of each room using the
<u>1) Write the shape of the room</u>	<u>1. 2) Write the formula. 3) Plug in</u>	measurements to solve.
Area of living room: 1) What is th	ne shape of the room?	
2)	= 3)	ft².
Area of dining room: 1) What is t	he shape of the room?	
2)	= 3)	ft².
Area of kitchen: 1) What is the s	hape of the room?	
2)	= 3)	ft².
Area of bedroom: 1) What is the	shape of the room?	
2)	= 3)	ft².
Area of bathroom: 1) What is the	e shape of the room?	
2)	= 3)	ft².
Area of garage: 1) What is the st	nape of the room?	
2)	= 3)	ft².
Area of backyard: 1) What is the	shape of the room?	
2)	= 3)	ft².

Additional	rooms	in	vour	dream	house	can	be	written	here:	
			/							

1) Write the shape of the room. 2) Write the formula. 3) Plug in measurements to solve.

Area of	_: 1) What is the shape of the room?	
2)	= 3)	_ ft².
Area of	: 1) What is the shape of the room?	
2)	= 3)	_ ft².
Area of	: 1) What is the shape of the room?	
2)	= 3)	_ ft².
Area of	: 1) What is the shape of the room?	
2)	= 3)	_ ft².
Area of	: 1) What is the shape of the room?	
2)	= 3)	_ ft².
Area of	: 1) What is the shape of the room?	
2)	= 3)	_ ft².
Area of	_: 1) What is the shape of the room?	
2)	= 3)	_ f†².
Explain why you chose to design how many creative rooms you co	your dream home the way you did. Did the grid po puld put in your dream home?	aper's size affect

Week of 3/7/2016 ~ Due to Ms. Cárdenas by Friday ~ YOU CAN DO IT! Weekly Math Homework 2

Name:		Period:_
	AREA	
	Triangle	$A = \frac{1}{2}bh$
	Rectangle or parallelogram	A = bh
	Trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$
	VOLUME	
	Rectangular prism	V = Bh

* Find the area of each triangle:

























* Find the volume of each figure:



a. They have one sheet of plywood, 3 ft by 6 ft. Will they be able to make the piece using this one sheet? Explain.

b. How many square feet of plywood is in the completed piece? Show your work.

My work space:			

<u>Day 7</u>

Name:_____

Score:_____

Period:_____

TORO DREAM HOUSE 3D MODEL ACTIVITY



After building your 3D model, determine the volume of each room using what you know about area of the base to find volume.

1) Square footage = Area of Base 2) Multiplied by the height 3) Final Volume

Volume of living room: 1) What is the square footage of the room?				
2) What is the height of the room?	_ft. 3) Volume =	ft³.		
Volume of dining room: 1) What is the square footage	of the room?	ft².		
2) What is the height of the room?	_ft. 3) Volume =	ft³.		
Volume of kitchen: 1) What is the square footage of t	he room?	_ ft²		
2) What is the height of the room?	_ft. 3) Volume =	ft³.		
Volume of bedroom: 1) What is the square footage of	the room?	_ ft²		
2) What is the height of the room?	_ft. 3) Volume =	ft³.		
Volume of bathroom: 1) What is the square footage of the room?				
2) What is the height of the room?	_ft. 3) Volume =	ft³.		
Volume of garage: 1) What is the square footage of the	ne room?	ft²		
2) What is the height of the room?	_ft. 3) Volume =	ft³.		
Volume of backyard: 1) What is the square footage of the room?				
2) What is the height of the room?	_ft. 3) Volume =	ft³.		

Additional rooms in your 3D model can be written here:						
1) Square footage = Area of Base 2) Multiplied by the height 3) Final Volume						
Volume of	: 1) What is the squ	uare footage of the room?	ft²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft³.			
Volume of	: 1) What is the squ	uare footage of the room?	ft²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft³.			
Volume of	: 1) What is the squ	are footage of the room?	ft²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft ³ .			
Volume of	: 1) What is the squ	are footage of the room?	f†²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft ³ .			
Volume of	: 1) What is the squ	are footage of the room?	f†²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft³.			
Volume of	: 1) What is the squ	are footage of the room?	f†²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft ³ .			
Volume of	: 1) What is the squ	are footage of the room?	f†²			
2) What is the he	eight of the room?	ft. 3) Volume =	ft³.			
After building your could do this proje	r 3D model, are there any adjus	tments/improvements that you would	make if you			
What was the easi	est part about this project?					
What was the most challenging part about this project?						

Day 8

Date: ____

Period: ____

Name: Toro Dream House Checklist Place check if turned in: Assignment/Activity: 1. Day 1 Notes a. Including: Do Now, Notes, & Exit Ticket 2. Day 2 Notes a. Including: Do Now, Notes, & Exit Ticket 3. Day 3 Notes a. Including: Do Now, Notes, & Exit Ticket 4. Day 4 Notes a. Including: Do Now, Notes, & Exit Ticket 5. Day 5 Notes a. Including: Do Now, Notes, & Exit Ticket 6. Toro Dream House Floor Plan a. Labeled in each room: name, length & width, and square footage b. Living Room c. Dining Room d. Kitchen e. Bedroom f. Bathroom g. Garage h. Backyard i. Extra Rooms 7. Toro Dream House Floor Plan Activity Sheet a. All blanks are completed. 8. Toro Dream House 3D Model a. A model reflecting what is drawn on the floor plan 9. Toro Dream House 3D Model Activity Sheet a. All blanks are completed. 10. Toro Dream House Rubric