Cornell Notes Topic: Surface Area and Volume Lessons 8.1, 8.2, 8.3, and 8.4		Name: Date: Period:	
Essential Question: How can you draw 3-D figures?; How can you find the area of the entire surface of a prism?; How can you use a net to find the surface area of a pyramid?; How can you find the volume of a rectangular prism with fractional edge lengths?			
Questions/Main Ideas:	<u>Not</u>	es:	
Lesson 8.1	3-D Figures		
Vocabulary	Solid - a 3-D figure that encloses a space		
	<u>Polyhedron</u> - a solid whose faces are all polygons		
	Face - a flat surface of a polyhedron		
	Edge- a line where 2 faces meet		
	<u>Vertex</u> - points or "corners"		
	<u>Prism</u> - a polyhedron that has 2 parallel, identical bases		
	Pyramid - a polyhedron that has	s one base	
Example 1	Finding the Number of Faces, Edges, and Vertices		
	# of # of # of Faces Edges Vertic		
Your Turn!	Find the number of faces, edges, as of the solid.	nd vertices	
Lesson 8.2			
Vocabulary	Surface Area - a solid is the s faces	um of the areas of all its	
	<u>Net</u> - 2-D representation of a square units	solid that is measured in	

Evennle 1	Finding the Surface Area of a Doctongular Priem	
Example 1	Finding the Surface Area of a Rectangular Prism	
	Top:	
	Bottom:	
	Front:	
	Back:	
	Side:	
	Side:	
	Total Surface Area:	
Example 2	Finding the Surface Area of a Triangular Prism	
Example 2	Finding the Surface Area of a Triangular Trisin	
	Bottom:	
	Front:	
	Back:	
	Side:	
	Side:	
	Total Surface Area:	
X 7 /D 1		
Your Turn!	Find the surface area of the rectangular prism.	
	1. 2. 5 m 6½ in. 5 in.	
	Find the surface area of the triangular prism.	
	4. 5. 10 m 10 m 16 m	
Lesson 8.3	Surface Area of Pyramids	
Example 1	Finding the Surface Area of a Square Pyramid	

	Bottom: Side: Side: Side: Side:	
Example 2	Finding the Surface Area of a Triangular Pyramid	
	Bottom: Side: Side: Side:	
	Total Surface Area:	
Your Turn!	Bottom: Side: Side: Side: Side:	
	2. Bottom: Side: Side: Side:	
Lesson 8.4	Ü	
Vocabulary	Volume - amount of space an object can hold	
Formula	V= L x W x H or V= LWH	

Example 1	Finding Volumes of Rectangular Prisms	
	b. $\frac{3}{2}$ in. $\frac{3}{2}$ in. $\frac{3}{2}$ in.	
Example 2	Finding the Missing Dimension of a Rectangular Prism	
	h Volume = 1792 in. ³	
	volume = 1792 in."	
	uld write a summary reflecting the above essential	
question.		