

Driving Questions: How can we use perimeter and area to design a house ...

<p>Each student will create a home design that</p> <ul style="list-style-type: none"> *is between 1000 to 1500 sq ft *has at least one 10x10 room and one 12x15 room *has all rooms labeled for purpose and size *includes a map that shows where the house is located, the landmarks, and physical features around the home 	<p>Skills/standards: Math</p>	<p>Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.</p>
		<p>Recognize area as an attribute of plane figures and understand concepts of area measurement.</p>
		<p>Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.</p>
		<p>Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters.</p>
	<p>Content area: Social Studies</p>	<p>Locate where they want their house to be on a map.</p>
		<p>Identify the landmarks around where their house is located.</p>
		<p>Identify the physical features of the land where they want their house to be.</p>
	<p>21st century skill:</p>	<p>Communication- Orally present their home to the class</p>
		<p>Communication- Gives feedback to classmates about their home design</p>
		<p>Creativity- Create a model of the home</p>

Resources:

https://docs.google.com/document/d/1edHteZtqjAsbPFQ-9D9IntGIbHvfBVREAc_N5RFmZqE/edit?usp=sharing

Day	Activity- daily Area and Perimeter mini lesson	homework
Mar 8	Introduction of perimeter https://www.mathgoodies.com/lessons/vol1/perimeter	http://www.shodor.org/interactivate/activities/PerimeterExplorer/
Mar 9	Introduction of area https://www.mathgoodies.com/lessons/vol1/area_rectangle	http://www.shodor.org/interactivate/activities/AreaExplorer/
Mar 10 Report card	Measure bedroom and bathroom	
Mar 11	Compare bedroom and bathroom measurements Draw it out on graph paper Breakout rooms, check each other's work	
Mar 12	Draw a house on graph paper. *Your house must have at least three rooms and a perimeter of 120 feet. *Figure out how many square feet of carpet or hardwood floors you will need for 2 rooms. Show those measurements in the drawing of the room.	Complete the house and share it with a friend or family member
Mar 15	Open a google doc and begin adding information. Select the location of the dream house. Research, find a map, find physical characteristics of the area, find the landmarks.	Complete location information how to add location to Padlet
Mar 16	Review house specifics and criteria Design the inside of the house, decide on flooring, find cost for materials, complete math to determine the cost.	
Mar 17	Catch up and complete tasks	
Mar 18	Active listening and feedback	
Mar 19	Catch up and complete tasks	Record on Flipgrid
Mar 22	View the presentations Feedback for classmates Complete tasks	

Mar 23	View the presentations Feedback for classmates Complete tasks	
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Area and Perimeter tasks

House tasks	Tech tasks	Hands on tasks
Design a house that *is between 1000 to 1500 sq ft *has at least one 10x10 room and one 12x15 room *has all rooms labeled for purpose and size *has flooring material determined and price *includes a map that shows where the house is located, tells the landmarks, and tells the physical features around the home *Build model of the home *Record on Flipgrid	-Flocabulary video, vocabulary game, quiz -Gimkit perimeter and area -Zearn Module 4: 1-16 -Dreambox lessons	-Perimeter person -Measure it activity: pick three items at school or home to measure, draw on graph paper, and find the area or perimeter -Make your name and find the area