

#### BEFORE YOU BEGIN...

#### WHAT IS A TINY HOUSE?

Most people will say that a tiny house is a home with less than 400 square feet of space. Four hundred might sound like a lot, but it is probably only half the size of most clasurooms.

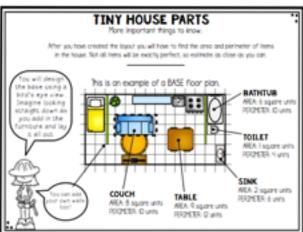
Many times, tiny houses are built on wheels. This means they are mobile and can be moved to different locations. A lot of tiny house owners like this because they can live in different areas or even in someone's backyard (as long as it's big enough).

#### WHO LIVES IN TINY HOUSES?

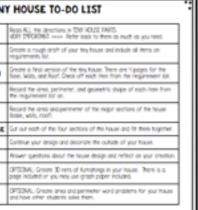
Anyone can live in a tiny house. It doesn't matter if it is a single person or a family of 5 or more. A tiry house is just like any other home, except it's much smaller.

#### WHY LIVE IN A TINY HOUSE?

- I. It is much cheaper than buying a larger home. Many people don't want to have large mortgages or mortfly payments, so a tiny home fit's their needs best.
- Many owners don't need a lot of space. A small home is just perfect for what they need.
- 3. It can be an adventure! It's new, it's fun, and people like the challenge of living small.



FIRST	DERECTIONS	Repd RLI, the directions in TWY HOUSE PARTS.  MENT PS/ORDANI xxxxxx Refer basis to them-as much as you need.
SECONO-	ROUGH DRAFT	Create a rough draft of your tiny house and include all items on requirements lot.
THORSE	FINAL VERSION	Greate a final version of the tiny house. There are 1 pages for the flow, Walls, and Roof. Ones off each tress from the regurement bit.
POUREM	SPEC HOME 1	Record the area, pertneter, and geometric shape of each from from the requirement list on.
FIFTH	SPEC HOME 2	Record the area and permeter of the rigger sections of the house book, walls, roofs
SDOW	BUILD THE HOUSE	Sur our each of the four sections of the house and fit them together.
SEVENTH	EXTERIOR	Continue your design and decorate the outside of your house.
CIGADO	REFLECTION	Answer questions about the house design and reflect on your creation
NINTH	BUILDING FURNITURE	DFIGURE, Create 30 nets of furnithings in your house. There is a page holidated or you may use graph paper includes.
TENTH	HOUSING PROBLEMS	DFSDNAL Create area and perimeter word problems for your house and have other students solve them.



#### **TINY HOUSE PARTS**

Things To Know

#### REQUIREMENTS LIST

Your house will have a list of Irens that must be included.

his will be a list items for the floor plan and the walls. You will decide where to put all of the

for units squared)

#### AREA & PERSHETER GEOMETRY DESIGN

As you greate the layout of the house, you will need to find the area and perimeter of items from the requirement

Units will be the measurement used for perimeter and area.

Comple -Permener is 25 units -Area is 26 square units Use geometry shapes to find the best solution to firring all items into the house

All houses are filled with geometry in the realworld. Use those ideas to help you make the best choloss.



#### BE PREPARED!

Your house must make sense and fit together. You will want to make sure the lougust makes sense

# ROUGH DRAFT: BLUEPRINTS Create your rough draft of the tiny house. Check off each item after you add it to your house.

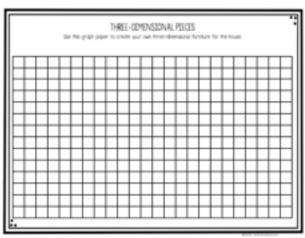


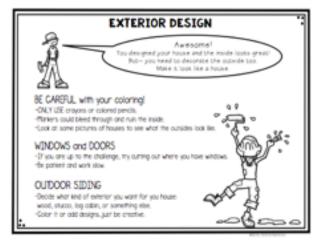
#### TINY HOUSE PARTS THE BASE THE WALL, PROCES THE WALL, PROCES THE ROOF here are the final two his is where you will Earth WIRL section. he find part of create the floor plancontains two walls. walls in the house. They the house (that is of the house. can be out out and They are folded to still important). You his will be the create a rectangle create house corners. will decide what central part of that firs exactly goes on it. around the base of creating the house. the house WALL ROOF BASE Each of the MAJOR PARTS will be on separate pieces of paper. They can be out out and placed together to form a tiny house in the shape of a rectangular prism.



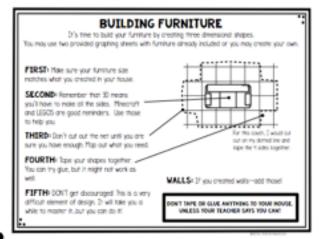
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	Wat "hree			
	Wat Four			
	Roof			
	ITEM	PERIMETER	AREA	
	Yard			
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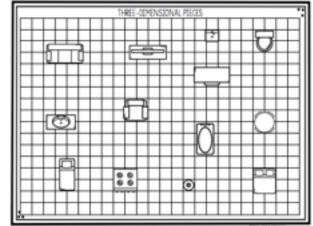




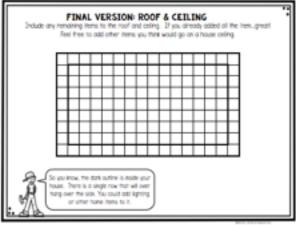


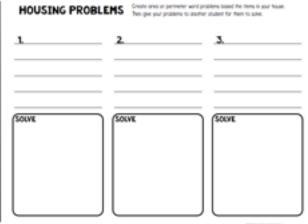


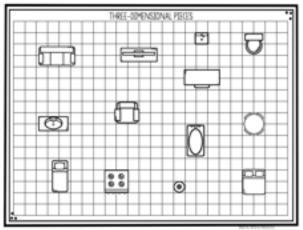












SPEC HOME  Fird the AREA and Perimeter of each REQUIRD them in your house.							
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bathroom sink				anden sitt			
tolet			]	TV or computer			
bed			]	refrigerator			
10bie				front door			
dar			]	window			
closer				window			
desk or side table				lge			
coutt/sofa or rediner			]	kge			
counter*			]	picture/artwork			
nicrovoe				mirror			

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ŀ	Applied collaboration selfs to congent the sollarly.	DOMES FOR SERVICE		**		

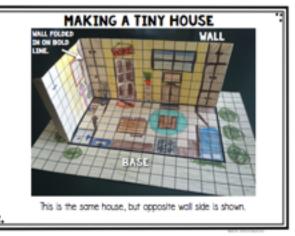
AREA NEEDS MORE WORK	PROFICIENT	EVIDENCE OF EXCEEDING STANDARD	
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	Applied problem-solving with to complete the solving		
	figured collaboration skills to complete the octobs		

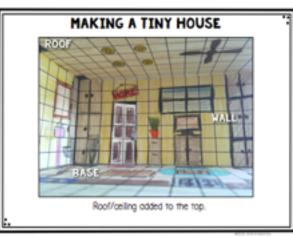
SCORING RUBRIC



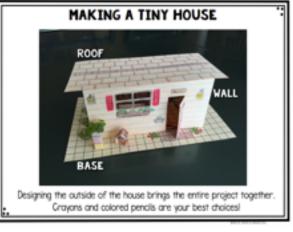




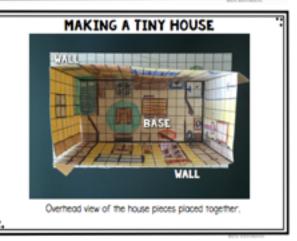














# **ABOUT THIS RESOURCE**

The objective of this project is for students to design and build a TINY HOUSE, while applying area, perimeter, and geometry skills. This project based learning activity also focuses on designing elements, using multiple problem solving skills, and collaborating in the classroom. It allows for easy differentiation, so students can work at a pace they will be successful at.

With this resource students WILL CREATE a miniature 3D version of a tiny house. The size of the houses will all be the same, but each student will create a unique version based on their own ideas, imagination, and application of skills.

Build a Tiny House asks students if they can design a house that contains almost 20 different pieces of furnishings (all in one place) and then find the area and perimeter of each item after they have done so. They're also asked to apply geometric skills; such as shapes and even developing their own nets to create furniture.

This PBL activity focuses on the real-world application of math concepts used in building and designing homes, while practicing problem-solving skills (which are one of the most sought after skills in the work force today), collaboration, and using their imagination.

# **ABOUT THIS RESOURCE**

#### MATERIALS NEEDED

- -computer paper
- -card stock (optional for the house building)
- -crayons and colored pencils
- -scissors
- -tape and glue

#### **UNITS**

The measurement used for this project will be a single unit per cube.

You may choose to increase complexity by making each cube worth more. Use this with students to easily differentiate.

Example: I square = 3 units or I square = 5 units

There are no feet, yard, or meters.

#### **OPTIONAL MATERIALS**

-books or magazines on building houses -videos that show tiny houses from internet (or maybe a HGTV show) -videos that merge math and housing together (search Youtube)

#### **BUILD IT YOURSELF**

I recommend building a house with your students. There are plenty of pictures included, but allowing them to see a hands-on version will add more for the students.

#### **PROJECT IT!**

Lots of elements of this resource work well when projected onto a smart board, tv, or white board.

Use those to help guide the students.

#### TIME FRAME

The time frame for completing this project will vary greatly. If you are planning on completing it in a week, give 45-60 minutes per day.

All students will work at different rates, but by the end of the week students should be finishing the required steps (I-8) or trying some of the additional tasks.

Time can vary based on many factors.

#### **ENCOURAGE CREATIVITY**

Push your students to try new ideas. At the beginning they may be hesitant, but encourage them to try new ideas. There are unlimited options in the project.

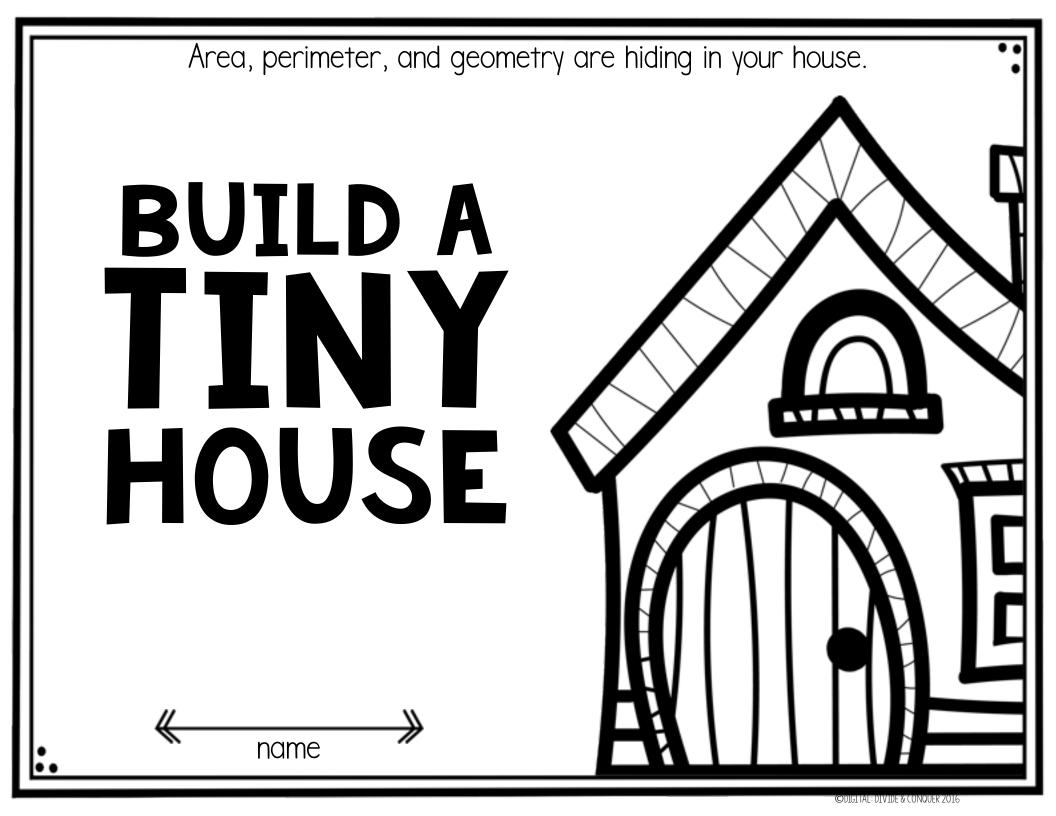


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## **BEFORE YOU BEGIN...**

## WHAT IS A TINY HOUSE?

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Many times, tiny houses are built on wheels. This means they are mobile and can be moved to different locations. A lot of tiny house owners like this because they can live in different areas or even in someone's backyard (as long as it's big enough).

## WHO LIVES IN TINY HOUSES?

Anyone can live in a tiny house. It doesn't matter if it is a single person or a family of five. A tiny house is just like any other home, except it's much smaller.

## WHY LIVE IN A TINY HOUSE?

- I. It is much cheaper than buying a larger home. Many people don't want to have large mortgages or monthly payments, so a tiny home fits their needs best.
- 2. Many owners don't want a lot of space. A small home is just perfect for what they need.
- 3. It can be an adventure! It's new, it's fun, and people like the challenge of living small.



# **BUILD A TINY HOUSE**

If you've been watching TV or reading magazines, chances are you have seen a tiny house. These little homes are popping up everywhere! People love them. They cost less than regular homes and they can be moved around. There's even TV shows where buyers pick a tiny home that will fit their needs the best.

Your city council has been paying attention to the amazing things happening in your classroom. They want to use those skills to build and design a set of tiny houses.

You are being been asked to create a tiny house that will be showed off at the Tri-City Realtor Convention. If these houses are a hit, they might choose to build them in town!

This means you'll be responsible for designing and building the perfect tiny house. It will include the layout, picking furniture, and using real-world math skills to finish this project.

Are you ready to build?

Let's go see your To-Do List...



# **TINY HOUSE TO-DO LIST**

FIRST:	DIRECTIONS	Read ALL the directions in TINY HOUSE PARTS. VERY IMPORTANT! >>>> Refer back to them as much as you need.
SECOND:	ROUGH DRAFT	Create a rough draft of your tiny house and include all items on the requirements list.
		Create a final version of the tiny house. There are 4 pages for the Base, Walls, and Roof. Check off each item from the requirement list.
FOURTH:	SPEC HOME 1	Record the area, perimeter, and geometric shape of each item from the requirement list.
FIFTH:	SPEC HOME 2	Record the area and perimeter of the major sections of the house (base, walls, roof/ceiling).
SIXTH:	BUILD THE HOUSE	Cut out each of the four sections of the house and fit them together.
SEVENTH:	SEVENTH: EXTERIOR Continue your design and decorate the outside of your house	
EIGHTH:	REFLECTION	Answer questions about the house design and reflect on your creation.
NINTH:	BUILDING FURNITURE	OPTIONAL: Create 3D nets of the furnishings in your house. There is a page included or you may use graph paper included.
TENTH:	HOUSING PROBLEMS	OPTIONAL: Create area and perimeter word problems for your house and have other students solve them.

## TINY HOUSE PARTS

There are four major parts of the house that you will build and design.

#### THE BASE

This is where you create the floor plan of the house.

This is a central part of creating the house.

#### THE WALL, PIECE 1

Each WALL section contains two walls.
They are folded to create house corners.

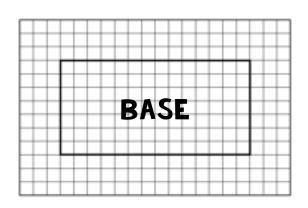
#### THE WALL, PIECE 2

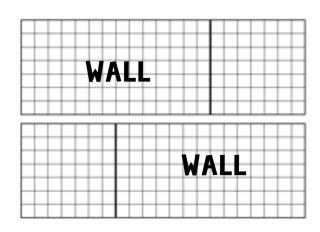
They can be cut out to create a rectangle that fits exactly around the base of the house.

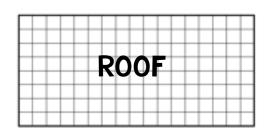
#### THE ROOF

The final part of the house.

You will be designing the ceiling (fans, lights, vents).







Each of the MAJOR PARTS will be on separate pieces of paper. They can be cut out and placed together to form a tiny house in the shape of a rectangular prism.

# TINY HOUSE PARTS

Things To Know

## REQUIREMENTS LIST

Your house will have a list of items that must be included.

This will be a list of items for the floor plan and the walls. You will decide where to put everything!



### **AREA & PERIMETER**

As you create the layout of the house, you will need to find the area and perimeter of items from the requirement list.

Units will be the measurement used for perimeter and area.

#### Example:

- -Perimeter is 24 units
- -Area is 26 square units (or units squared).

### **GEOMETRY DESIGN**

Use your geometry skills to find the best solution to fitting all items into the house.

All houses are filled with geometry in real life. Use those ideas to help you make the best choices.

Math is everywhere!

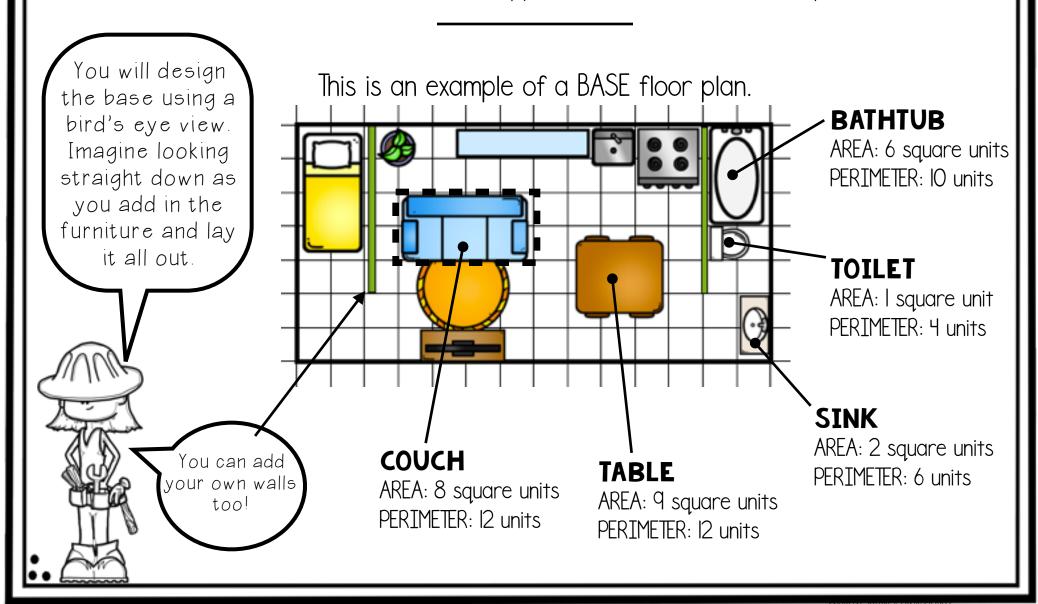
#### **BE PREPARED!**

Your house must make sense and fit together. You will want to make sure the layout makes sense.

## **TINY HOUSE PARTS**

More important things to know.

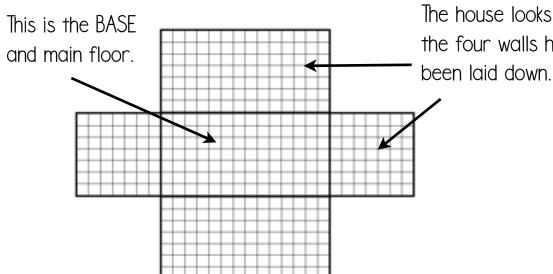
After you have created the layout, you will have to find the area and perimeter of items in the house. Not all items will be exactly perfect, so estimate as close as you can.



## ROUGH DRAFT: INSTRUCTIONS

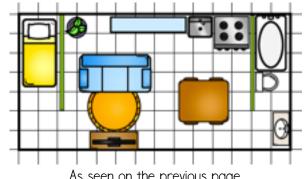
On the following page you will create a rough draft of the house.

This rough draft will be used as a blueprint and will include all items from the Requirement List. The Requirement List will be included on the page. Check off each item once you have included it.

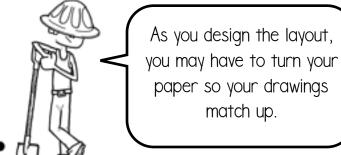


The house looks like the four walls have

A finished wall or base could look like this. Design carefully!



As seen on the previous page.



Include all the furnishing in your house. ADD YOUR OWN TDEAS TOO! Make it your house!



Refer back to the directions and look at the examples to help you out.

## ROUGH DRAFT: BLUEPRINTS

Create your rough draft of the tiny house. Check off each item after you add it to your house.

shower or tub	<u>WAL</u>	.L				stove/oven
bathroom sink						
toilet						kitchen sink
bed					+	TV or computer
table	H	+++	+++	+++	+	refrigerator
chair			+		+++	front door
						<b>_</b>
				$\top$		WALL
		$\neg$	$\neg$	+++		
	+	$\overline{}$	+++	+++		
	+	+++	+++	+++	+	
<b>⋖</b>	+	$\overline{}$	+	+++	++++	
MALL						
closet						
sk or side table						window
sk of side lable						window
h/sofa or recliner			$\perp \perp \perp$	$\perp \perp \perp$		picture/artwork
counter					$\perp$	
microwave						mirror

## FINAL VERSION: REQUIREMENT LISTS

Listed below are all the furnishing elements that must be included inside your tiny house. Check off each item once it has been added in your house design.

ITEM	COMPLETED
shower or tub	
bathroom sink	
toilet	
bed	
table	
chair	
closet	
desk or side table	
couch/sofa or recliner	
counter	
microwave	

ITEM	COMPLETED
stove/oven	
kitchen sink	
TV or computer	
refrigerator	
front door	
window	
window	
light	
light	
picture/artwork	
mirror	

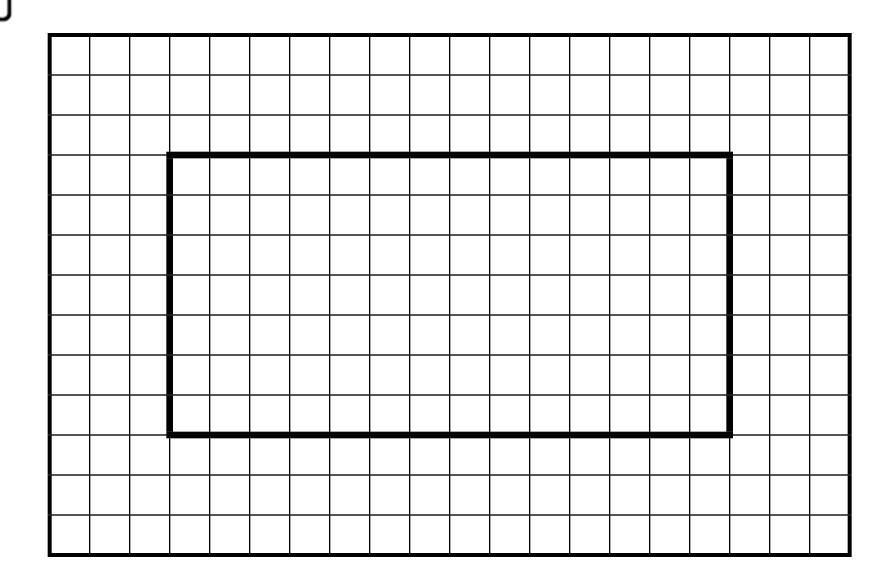


## FINAL VERSION: BASE FLOOR PLAN





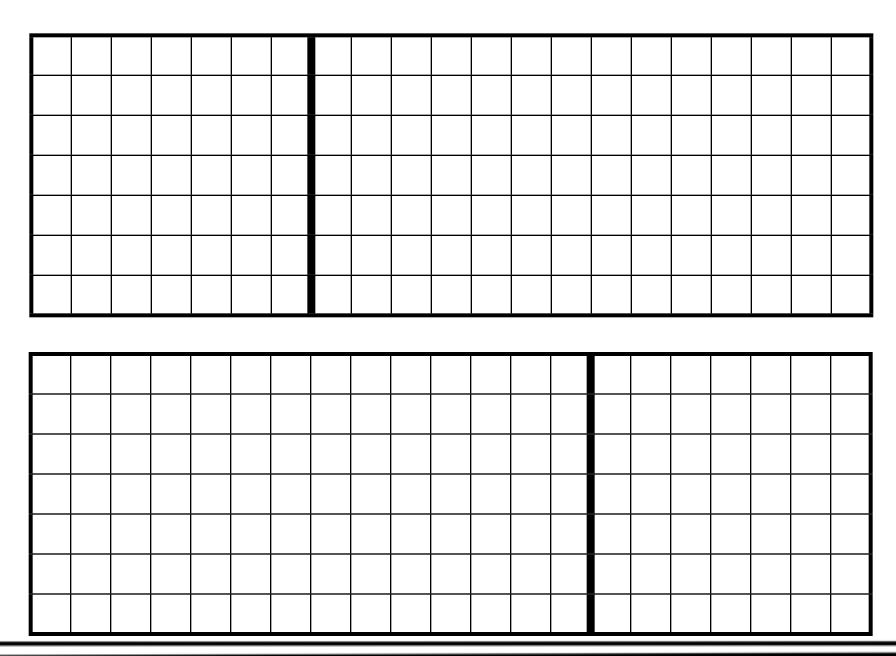
Convert your rough draft to the final version of the house.



You may also design the surrounding area, which would be considered the yard.

## FINAL VERSION: WALLS

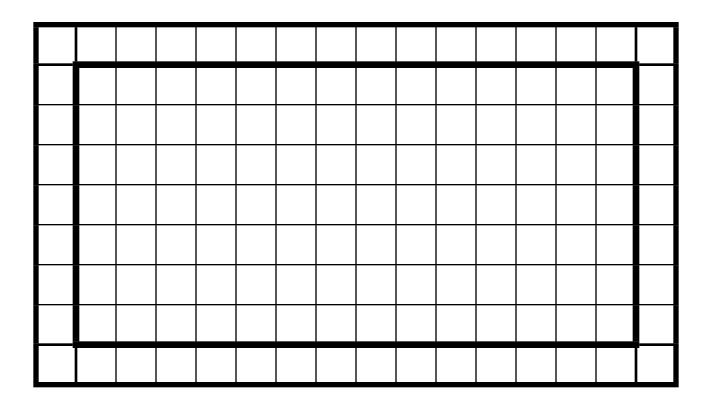
The inside walls of your tiny house are where you will add furnishings, create doors, windows, and finish out the design.



## FINAL VERSION: ROOF & CEILING

Include any remaining items on the roof and ceiling.

Add other items you think would go on a house ceiling.





The dark outline is inside your house.

There is a single row that will hang over the side. You could add lighting or other home decorations to it.

# SPEC HOME

Find the AREA, PERIMETER, and SHAPE of each required item in your house. Fill in the information below.

ITEM	PERIMETER	AREA	SHAPE
shower or tub			
bathroom sink			
toilet			
bed			
table			
chair			
closet			
desk or side table			
couch/sofa or recliner			
counter			
microwave			

# SPEC HOME

Find the AREA, PERIMETER, and SHAPE of each required item in your house. Fill in the information below.

ITEM	PERIMETER	AREA	SHAPE
stove/oven			
kitchen sink			
TV or computer			
refrigerator			
front door			
window			
window			
light			
light			
picture/artwork			
mirror			

## **SPEC HOME**

Find the AREA and PERIMETER of the base, four walls, and roof/ceiling.

ITEM	PERIMETER	AREA
House Base		
Wall One		
Wall Two		
Wall Three		
Wall Four		
Roof		
ITEM	PERIMETER	AREA
Yard		

## **EXTERIOR DESIGN**



#### Awesome!

You designed your house and the inside looks great!

But--you need to decorate the outside.

Make it look like a REAL house!

## BE CAREFUL with your coloring!

- -ONLY USE crayons or colored pencils.
- -Markers could bleed through and ruin the inside--no leaky house!
- -Look at some pictures of houses to see what the outsides look like.

## WINDOWS and DOORS

-If you are up to the challenge, try cutting out where you have windows.

-Be patient and work slow. Doors are easier, but windows take time.

## OUTDOOR SIDING

- -Decide what kind of exterior you want for your house: wood, stucco, log cabin, or something else.
- -Color it or add designs...just be creative.



## STUDENT REFLECTION

I CAN	YES	NEEDS More Work
I completed steps I-8 on the To-Do List.		
I can find the area of an object.		
I can find the perimeter of an object		
I can find the area and perimeter of an object $I$ create.		
I can connect area, perimeter, and geometry to real-world situations.		
I can use problem-solving techniques to complete this activity.		
I can use collaboration techniques to complete this activity.		

THE MOST CHALLENGING PART OF THIS PROJECT WAS...

MY FAVORITE PART OF THIS PROJECT WAS...

ONE THING THAT REALLY SURPRISED ME WAS...

SOMETHING I LEARNED FROM A CLASSMATE WAS...

## **BUILDING FURNITURE**

It's time to build your furniture by creating three dimensional shapes. Use two provided graphing sheets with furniture included or create your own.

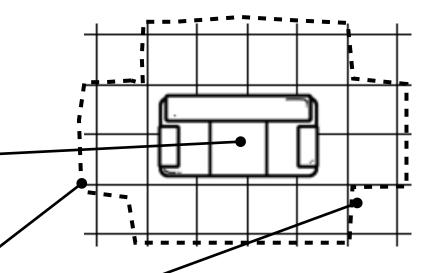
**FIRST:** Make sure your furniture size matches what you created in your house.

**SECOND:** 3D (three dimensional) means you'll have to design on all the sides. Minecraft and LEGOS are good examples.

**THIRD:** Don't cut out the net until you are sure you have enough. Map out what you need.

**FOURTH:** Tape your shapes together. You can try glue, but it might not work as well.

**FIFTH:** DON'T get discouraged! This is a very difficult element of design. It will take you a while to master it...but you can do it!



the 4 sides together.

on my dotted line and tape

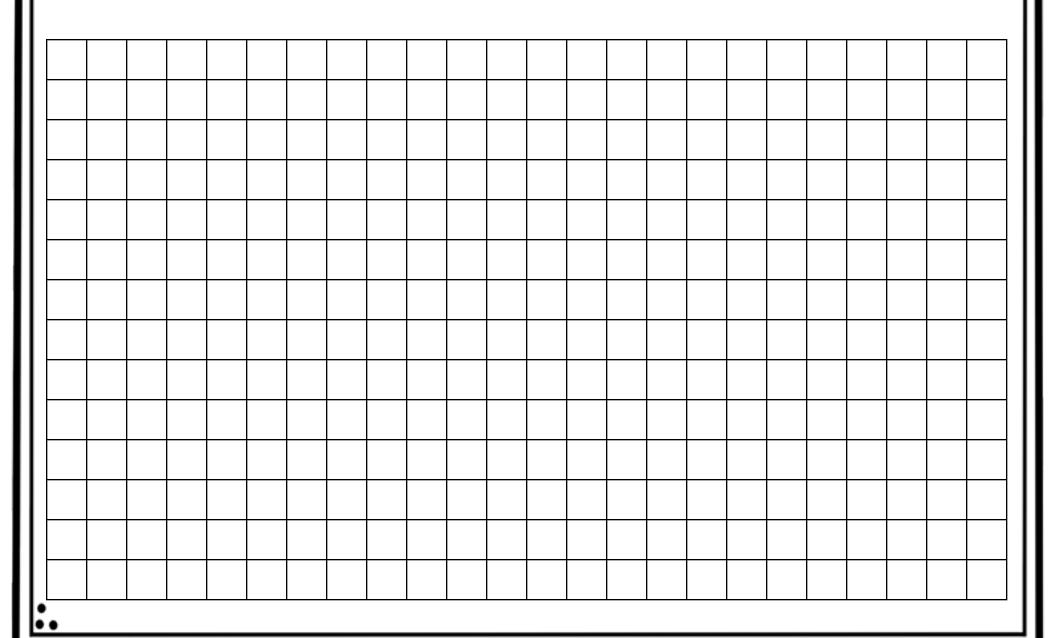
For this couch, I would cut out

**WALLS:** If you created walls--add those!

DON'T TAPE OR GLUE ANYTHING TO YOUR HOUSE, UNLESS YOUR TEACHER SAYS YOU CAN!

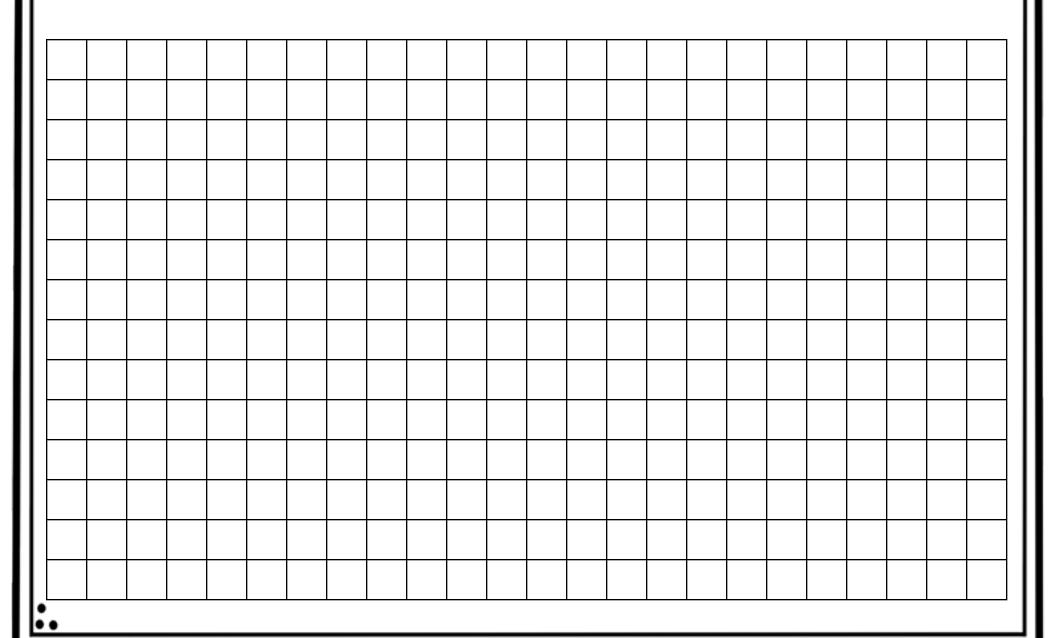
## THREE-DIMENSIONAL PIECES

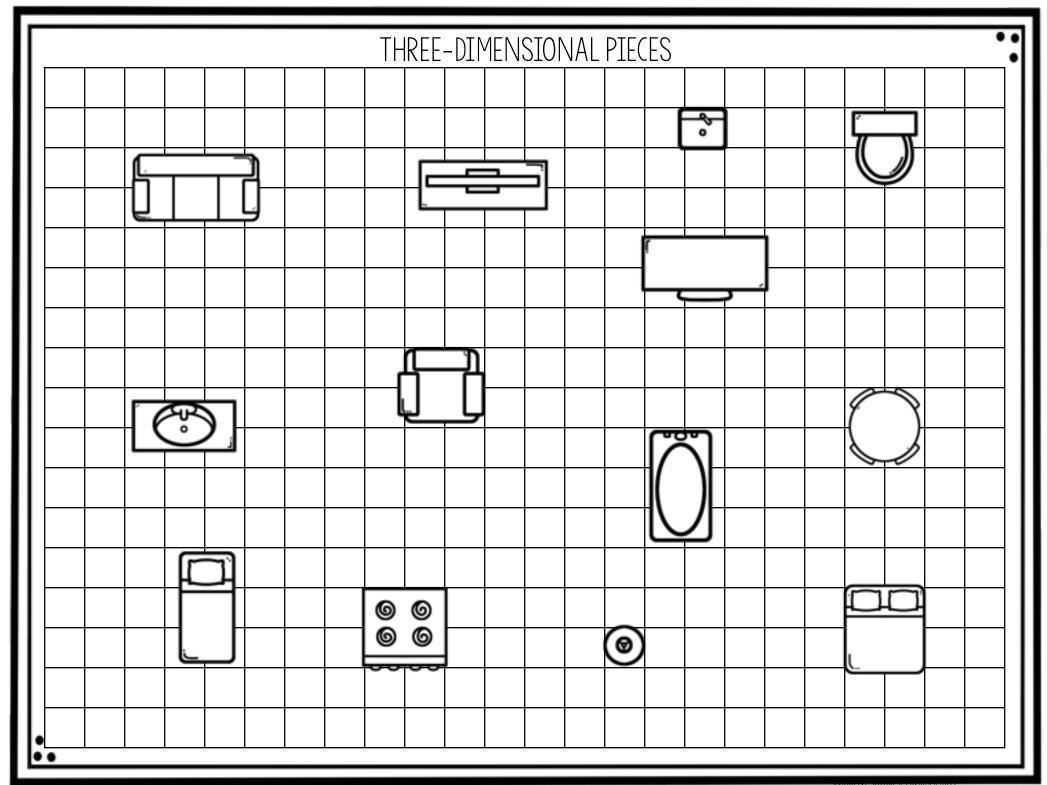
Use this graph paper to create your own three-dimensional furniture for the house.

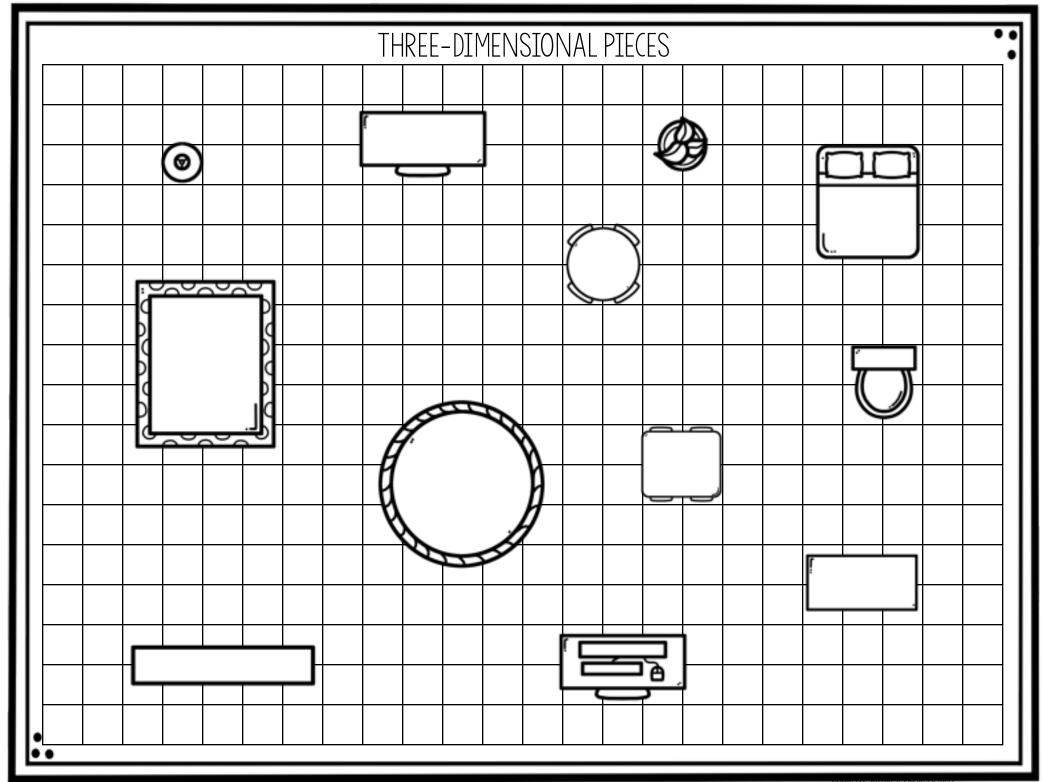


## THREE-DIMENSIONAL PIECES

Use this graph paper to create your own three-dimensional furniture for the house.







# HOUSING PROBLEMS

The following pages include HOUSING PROBLEMS worksheets. There are four different versions included for you to choose from.

# **HOUSING PROBLEMS** Create area or perimeter word problems based on the items in your house. Then give your problems to another student for them to solve. SOLVE SOLVE

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## HOUSING PROBLEMS

Create area or perimeter word problems based on the items in your house. Then give your problems to another student for them to solve.

<b>1.</b>	<u>2.</u>	
SOLVE	SOLVE	
3.		
SOLVE	SOLVE	
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## HOUSING PROBLEMS

Create area or perimeter word problems based on the items in your house. Then give your problems to another student for them to solve.

<b>1.</b>	2.	<b>3.</b>
SOLVE	SOLVE	SOLVE

The following pages include different variations of the SPEC HOME.

One version has included all requirements on a single page.

One version has removed the SHAPE column.

ITEM	PERIMETER	AREA
shower or tub		
bathroom sink		
toilet		
bed		
table		
chair		
closet		
desk or side table		
couch/sofa or recliner		
counter		
microwave		

PERIMETER	AREA
	PERIMETER

ITEM	PERIMETER	AREA
shower or tub		
bathroom sink		
toilet		
bed		
table		
chair		
closet		
desk or side table		
couch/sofa or recliner		
counter		
microwave		

ITEM	PERIMETER	AREA
stove/oven		
kitchen sink		
TV or computer		
refrigerator		
front door		
window		
window		
light		
light		
picture/artwork		
mirror		

ITEM	PERIMETER	AREA
stove/oven		
kitchen sink		
TV or computer		
refrigerator		
front door		
window		
window		
light		
light		
picture/artwork		
mirror		

## **EXTRA PIECES**

The following pages include extra and alternative pages you may want to use with your class.

#### PAGE: 3D BASE AND WALLS 7xH and

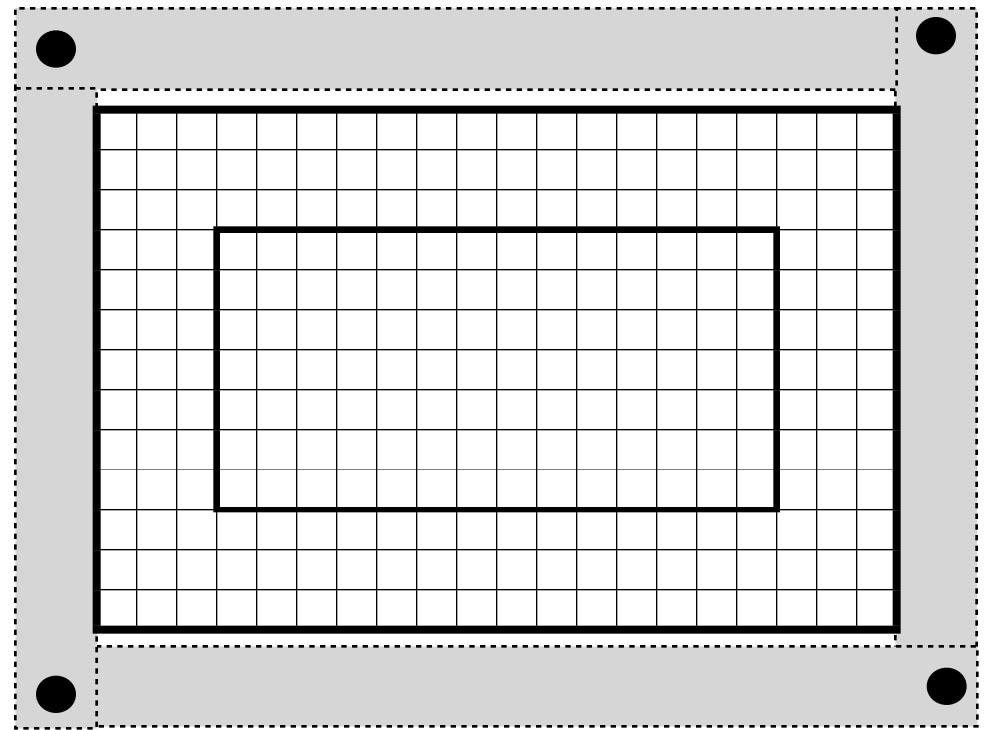
If your students want to create a base that stands up, use this. All sizes are still the same, but the ends can be folded down to create a lid-top.

#### PAGE: LARGER ROUGHER DRAFT GRID

This can replace the smaller one in the packet. It does not include all items from the Requirements List.

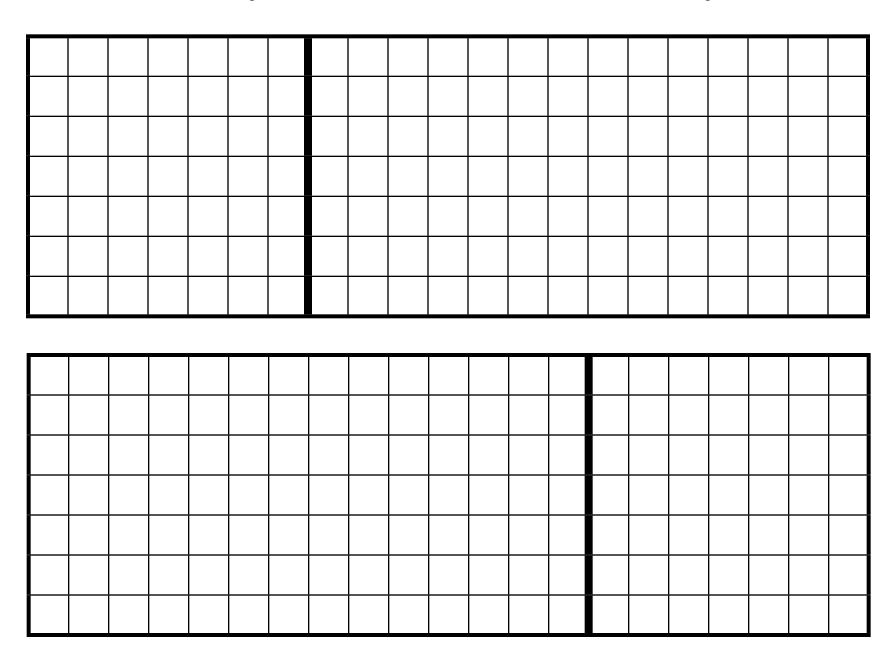
#### PAGE: FLOOR PLAN LAYOUT EXAMPLE.

Include or project this image to give students a sense of what the house might look like. It doesn't include all parts.



#### FINAL VERSION: WALLS

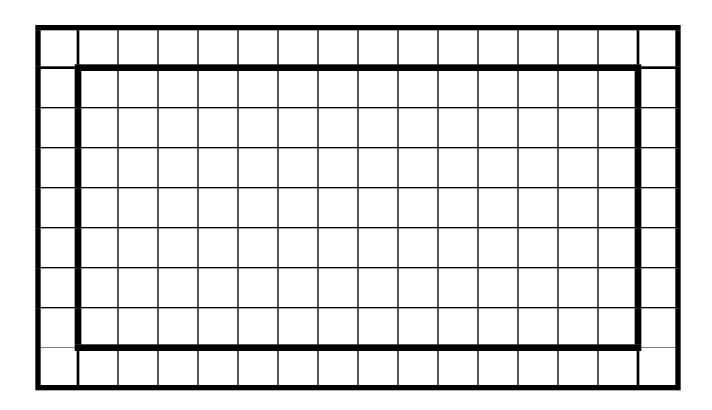
The inside walls of your tiny house are where you will add furnishings, create doors, windows, and finish out the design.



#### FINAL VERSION: ROOF & CEILING

Include any remaining items on the roof and ceiling.

Add other items you think would go on a house ceiling.



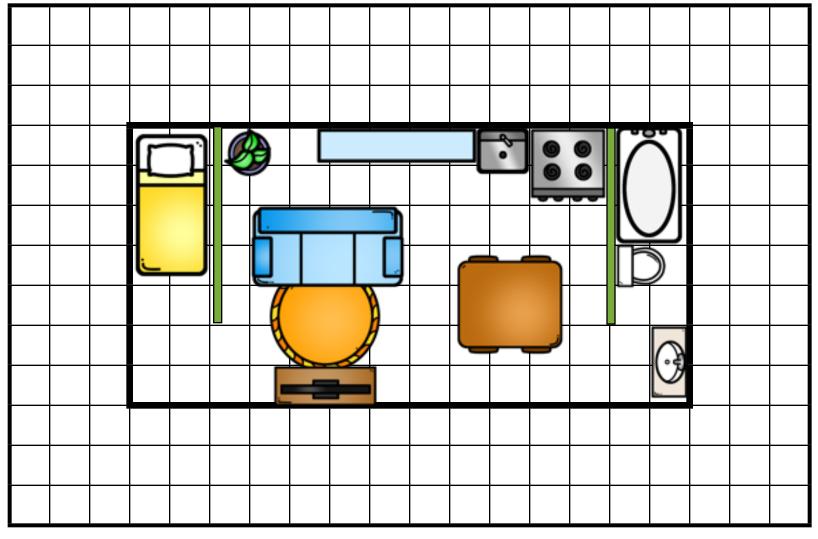


The dark outline is inside your house.

There is a single row that will hang over the side. You could add lighting or other home decorations to it.

#### **BASE & FLOOR PLAN**

# **EXAMPLE**



# TEACHER RUBRICS

Included are two versions of rubrics. Choose the version that works best for your class.

The first is a **single-point rubric**. If students are proficient in each category (running down the middle) you can circle the criteria. If they exceed or need more work with each criteria, there is space for you to give a specific example. This version requires more writing (from the teacher), but works well if your school is not using traditional grading systems.

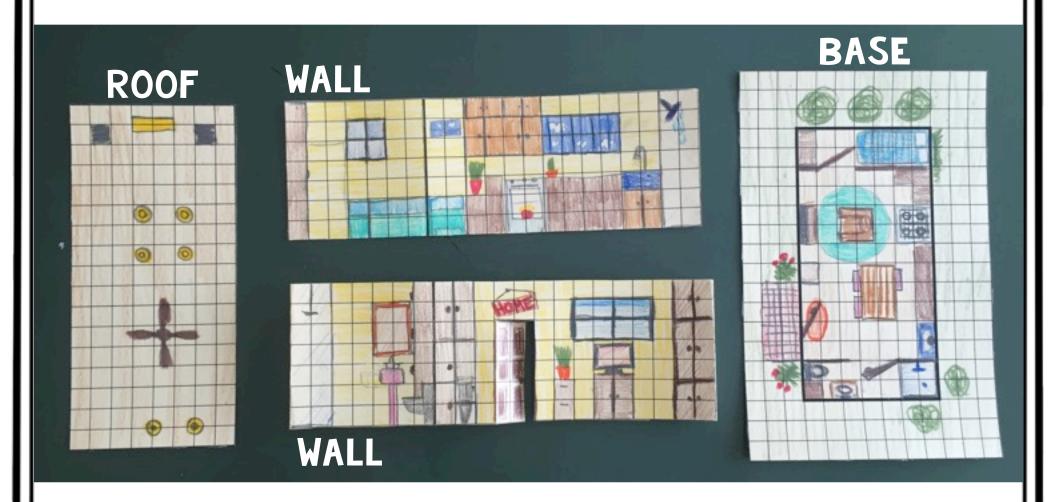
The second rubric is more **traditional using a 5-point scale**. Teachers determine the scoring based on how they performed with the project, which is totaled at 25 points. The two final criteria options are based on problem-solving and collaboration. Those do not have a score. Students either exceed, meet, or need more work. Extra space is provided to write in, too.

### **SCORING RUBRIC**

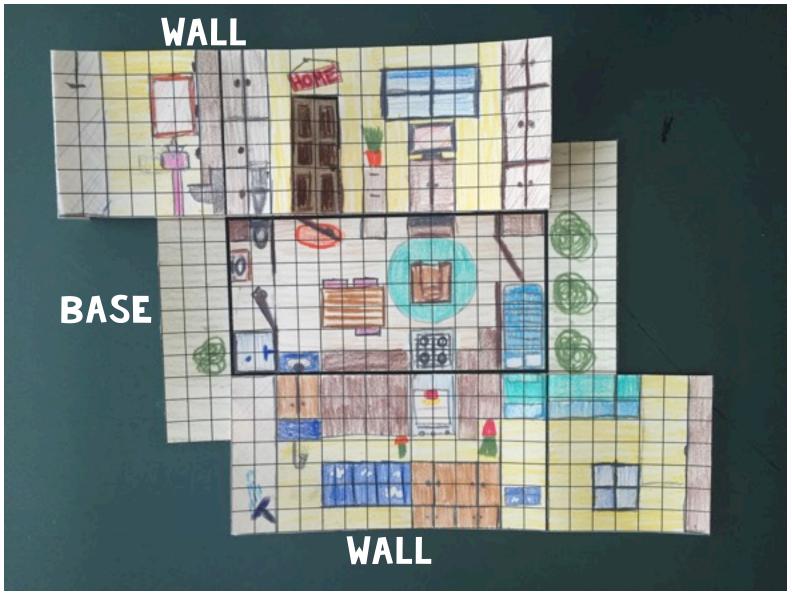
AREA NEEDS MORE WORK	PROFICIENT	EVIDENCE OF EXCEEDING STANDARD
	Student completed steps I-8 on the To-Do List	
	Demonstrates an understanding of finding area and applying it correctly.	
	Demonstrated an understanding of finding perimeter and applying it correctly.	
	Demonstrated an understanding of identifying geometric shapes correctly.	
	Connected the concepts of area, perimeter, and geometric shapes to realworld settings (building a house).	
	Applied problem-solving skills to complete the activity.	
	Applied collaboration skills to complete the activity	

#### **SCORING RUBRIC**

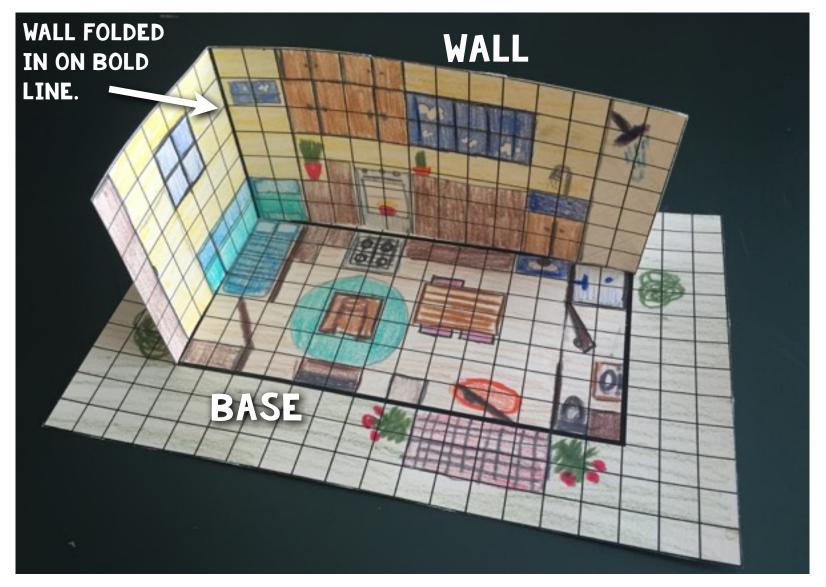
CRITERIA	MET STANDARD				AREA NEEDS MORE WORK
Student completes steps I-8 on the To-Do List	5	4	3	2	1
Demonstrates an understanding of finding area and applying it correctly.	5	4	3	2	1
Demonstrates an understanding of finding perimeter and applying it correctly.	5	4	3	2	1
Demonstrates an understanding of identifying geometric shapes correctly.	5	4	3	2	1
Connects the concepts of area, perimeter, and geometric shapes to real-world settings (building a house).	5	4	3	2	1
Applies problem-solving skills to complete the activity.	EVIDENCE OF EXCEEDING		MET		
Applies collaboration skills to complete the activity	EVIDENCE OF EXCEEDING		MET		



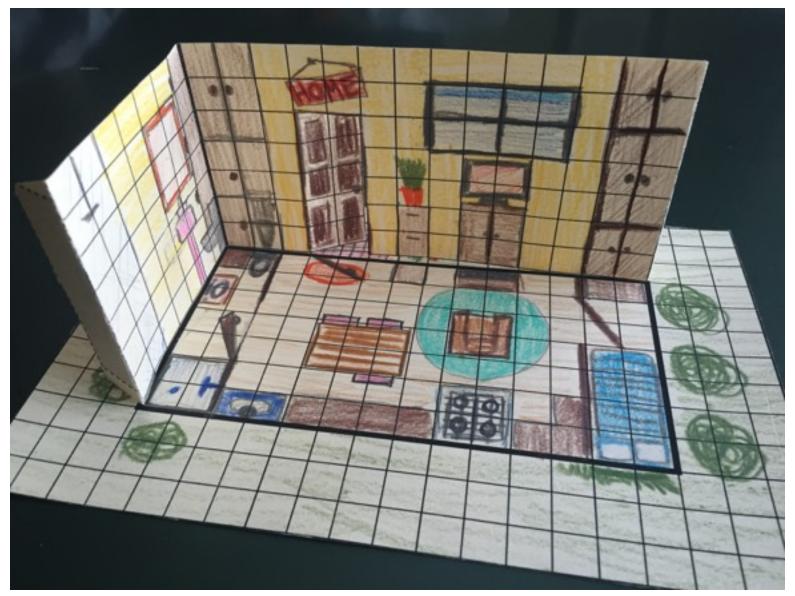
Cut out each of the FOUR major parts once you have fully finished designing them.



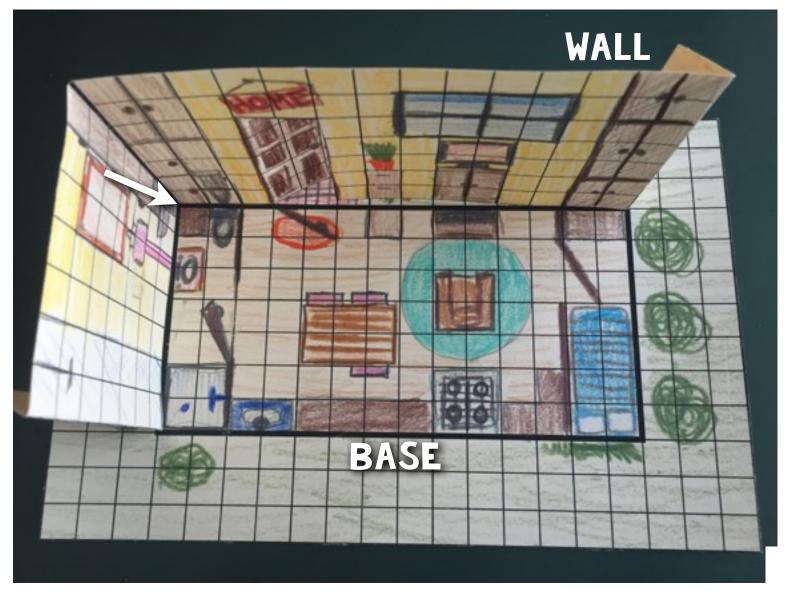
Make sure all the pieces line up with each other. You won't need to add the roof until the end.



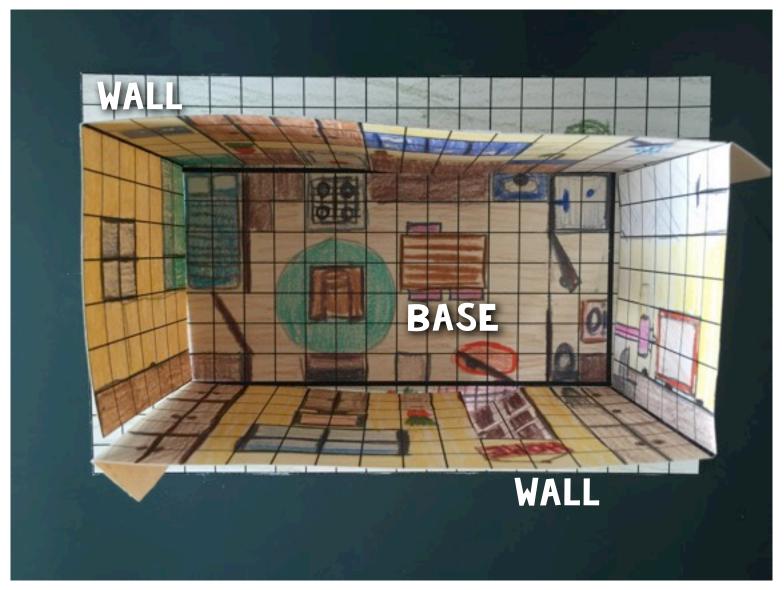
Make sure all the pieces line up with each other. You won't need to add the roof until the end.



This is the same house, but opposite wall side is shown.



There is no need to tape or glue the wall down. They should stand on their own once the paper is folded.



Overhead view of the house pieces placed together.



Roof/ceiling added to the top.



Designing the outside of the house brings the entire project together. Crayons and colored pencils are your best choices!



A view from the back of the house.



Make sure you furnish your house with 3D objects.
There are cutouts included, but you can create many on your own.
It takes practice and patience, but your ideas are unlimited.

Mail box, bunk beds, flag pole, chimney, A/C, fence, walls, stool, washer/dryer, holiday lights hanging off the house...so many ideas!

Place your 3D furnishing in the house. You can remove walls to see how it looks.



You will begin to see how much space they take up. This gives you a better idea of how important it is to be a designer.







Take a peek inside your house once you have cut out all the windows.







IF YOU'RE LOOKING FOR SOMETHING TO ENGAGE STUDENTS, EXPAND THEIR THINKING, AND PUSH CREATIVITY-- CHECK OUT MY ASSORTMENT OF...

#### **Project Based Learning Activities.**

CLICK ABOVE!













































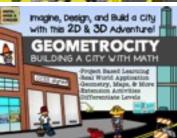


























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