

BUILD A TINY HOUSE

STAGE 2 PBL



Name

Class

3P

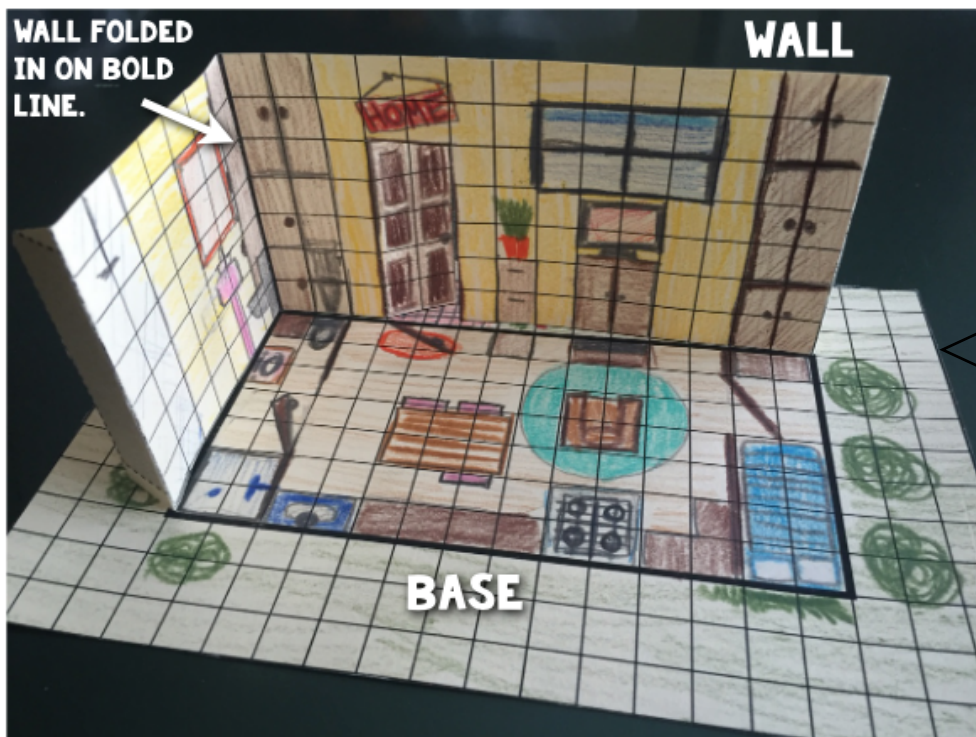
Before you begin...

What is a Tiny House?

Most people will say that a tiny house is a home with less than 200 square metres of space. Two hundred might sound like a lot, but it is probably only half the size of most classrooms. 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.

Why do people live in Tiny Houses?

1. 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.



This is what you're aiming to create

Brief Project Overview

Goal	Create a tiny house that meets the needs of your client.
Project Summary	Help! Your teacher desperately needs a new home. In this project, you are going to design and consult with your teacher to create a house that meets their budget, needs and personal preferences.
What will you be doing?	You will be: <ul style="list-style-type: none">● Reading a blurb about your teacher's needs● Creating blueprints of a tiny house● Creating a 3D version of the house● Writing an informative and persuasive text to describe and sell the home
How long do you have to complete this task?	You will have 5 weeks to complete your proposal. The project has been divided into 15 tasks for you to complete (three tasks each week).
We are learning to:	Use our critical thinking, writing, problem solving and mathematical skills to create a home that is functional.
This is because:	It will help you understand the importance of the maths and English in your everyday lives.
What skills do I need to use to be successful?	This project will involve you using a range of skills including: <ul style="list-style-type: none">● Reading and comprehension● Writing● Addition and subtraction● Multiplication● Money skills● Area and perimeter● Measuring● Visual Arts

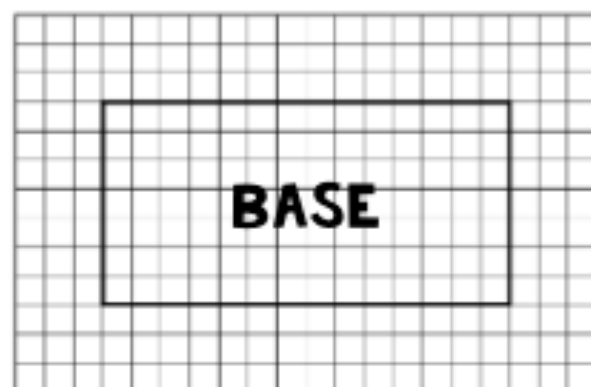
TINY HOUSE PARTS

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

THE BASE

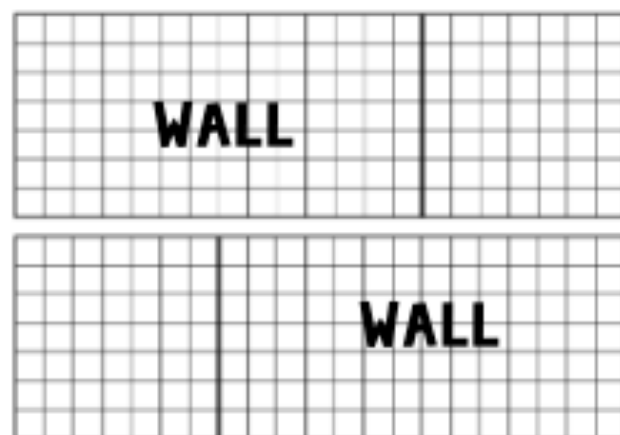
This is where you create the floor plan of the house.

This is a central part of creating the house.



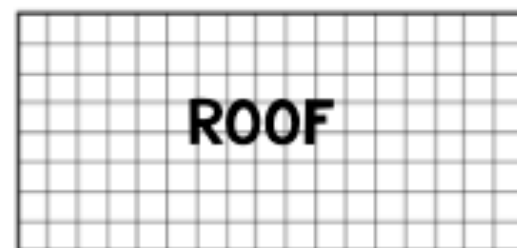
THE WALL, PIECE 1

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

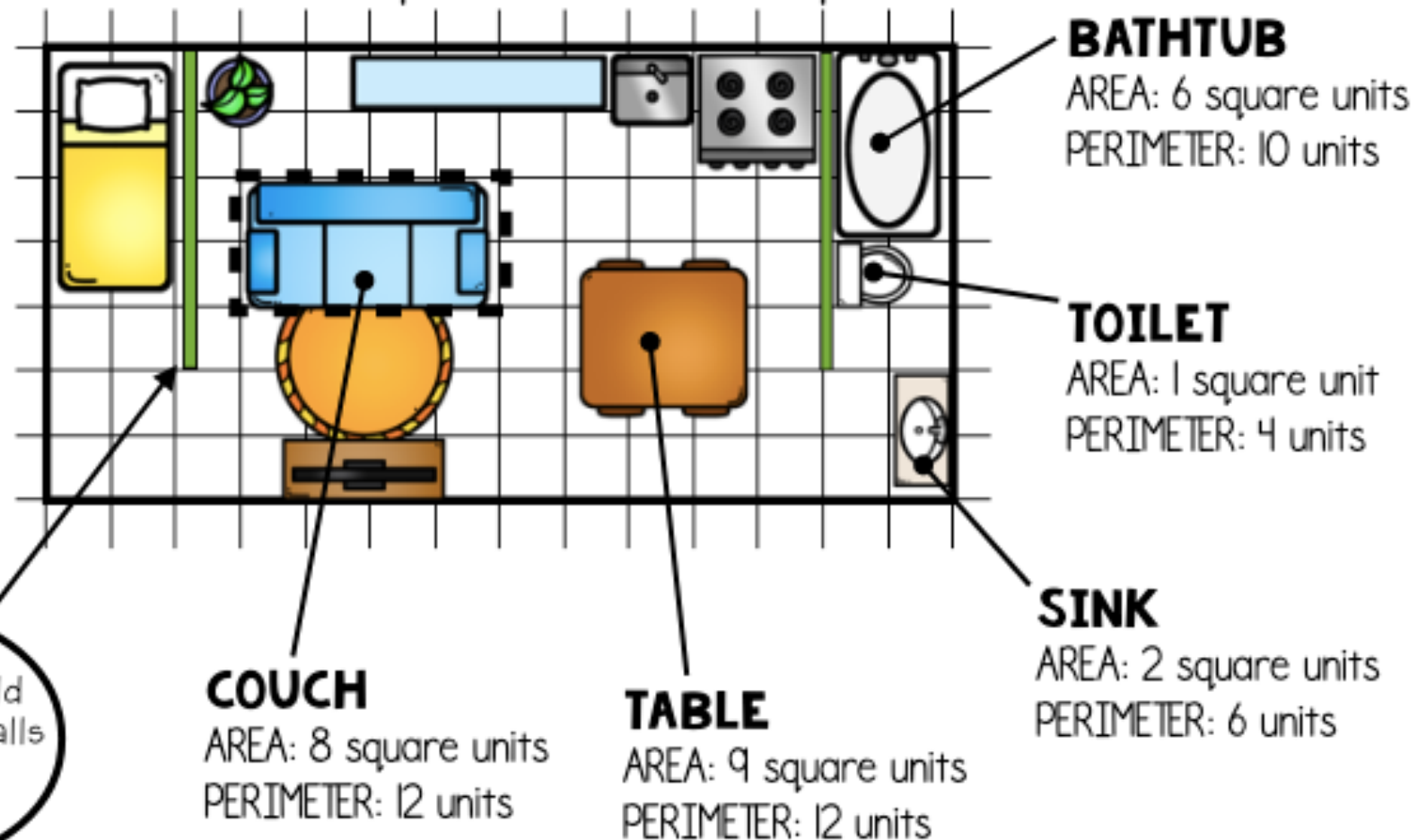
More important things to know.

After you have created the layout, you will have to find the area and perimeter of items in the house. Not all items will fit. Use your estimation skills to get them as close as possible.

You will design the base using a bird's eye view. Imagine looking straight down as you add in the furniture and lay it all out.

You can add your own walls too!

This is an example of a BASE floor plan.



Week 1 Check list

	Task Order	Task	Brief Explanation	Sign and Date
Week 1	First	Directions	Read the project overview, to-do list and tiny house parts carefully. Refer to it as much as you need throughout the project. Ask a teacher if there is anything you don't understand.	
	Second	Read	Read your client's (teacher) needs and create a list of requirements for your tiny house. This will include furniture (such as a bed and a table) and fixtures (stove, sinks, toilets).	
	Third	Blueprint Write	Create a blueprint or rough draft of your tiny house. You might have to check your client's needs and requirements list to ensure you haven't forgotten something. Questions for your client.	

Task 2: Client Needs

Carefully read through the needs of your teacher and write a list of requirements (requirements are things the house will need). As you read highlight sections that are important. Some parts of your teacher's needs will be listed clearly, however, not everything will be (example: if there are 4 people in their family how many beds do you think they will need?). You will need to use your inferencing skills to help you.

Good morning 3P,

I would like a home that is the perfect size and function for me and my dog Nelson. I adore painting, music, gardening and, of course, watching movies. A large kitchen and living area are a must so that my friends and family feel comfortable when they come over to visit. Nelson is spoiled; it is important that he has his own bed and some other things just for him. The bathroom doesn't need to be big so just the basics will be enough.

Some things I can't live without include a mirror, radio, table, lounge, desk for my computer and somewhere to paint (inside or outside). If it's possible I would really like a garden outside and an aquarium but if it doesn't fit that's okay.

I prefer neutral colours, like brown, white and grey.

Thank you so much for helping build my dream home!

Miss Phillips

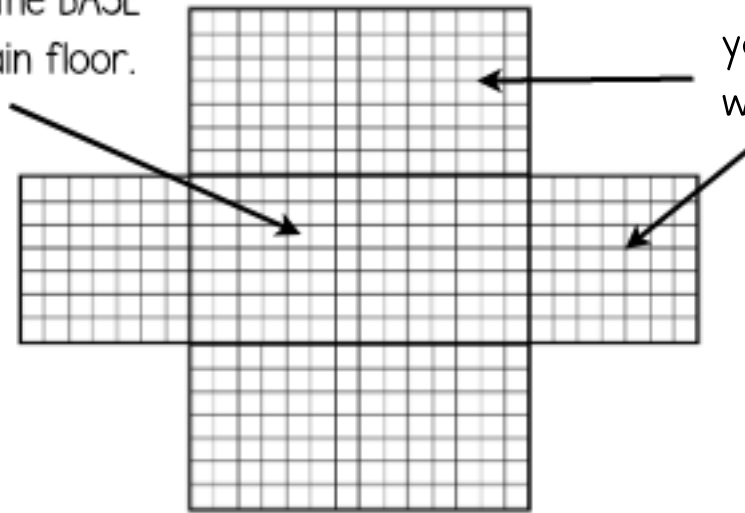
Task 2: Requirements

Name of furniture or fixture	Quantity (How many)
Example: lounge	2

Task 3: Blueprint Instructions

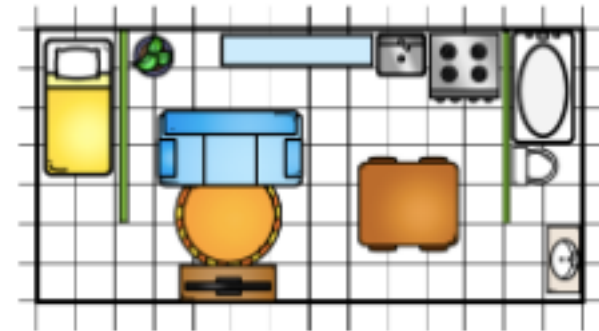
This is only a draft or a blueprint. You need to include all items from the requirement list. Tick off each item once you have included it. Remember a tiny house is small, you may need to get creative about some items. Can an item act as 2 things instead of one? (eg computer desk and dining table)

This is the BASE and main floor.



If you assembled your house the net would look like this.

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 IDEAS TOO!
Make it your house!

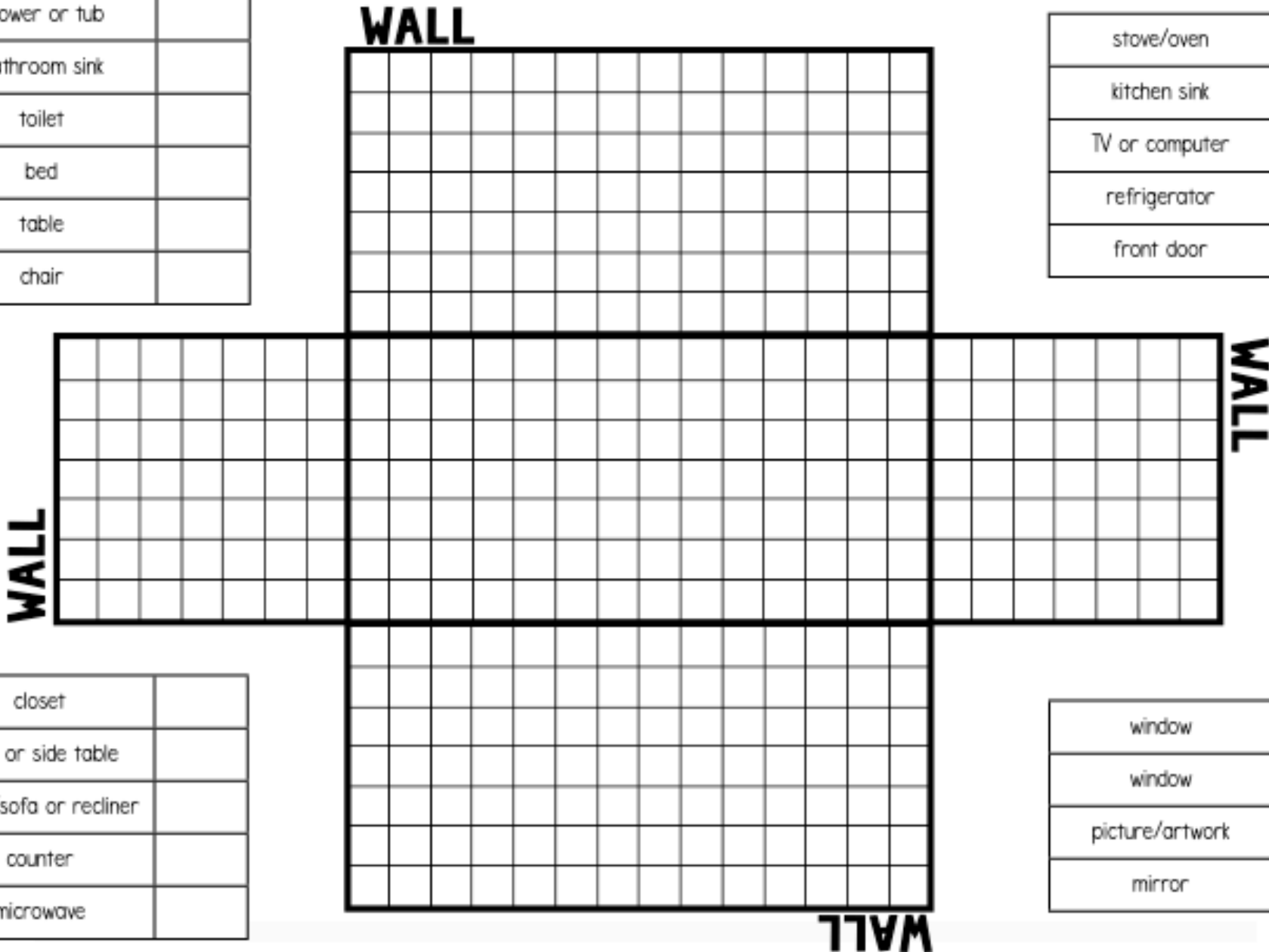


Refer back to the directions and look at the examples to help you out.

Task 3: Blueprints (Some requirements have been included to help)

shower or tub	
bathroom sink	
toilet	
bed	
table	
chair	

stove/oven	
kitchen sink	
TV or computer	
refrigerator	
front door	



closet	
desk or side table	
couch/sofa or recliner	
counter	
microwave	

window	
window	
picture/artwork	
mirror	

Task 3: Questions

Next week, you will meet with your client, have you come across any problems in your design? Is there something you need clarified? Think of at least three questions you're going to ask your client. *Remember a question starts with a capital letter and ends with a questions mark.*

Extra-Optional

If you are interested in learning more about Tiny Homes to help with your project. Here are some QR codes and interesting facts for you.



