

Design Technology 3D House

In this unit, we will research different types of 3D homes, look at what a net is,
practise drawing nets for houses and design and make our own house to make
a class village.

My learning for this topic:

I = Independent	TS = Teacher Support	AD = Adult Directed	
-			

Learning Objective	AD	TS	I
Can I identify different types of nets and state what 3D shapes they make?			
Can I understand how boxes are made up, designing nets that will make 3D shapes.?			
Can I design and develop a product to meet a design brief?			
Can I select appropriate materials to use to make my box whilst also selecting other materials to make the product attractive in appearance?			
Can I evaluate my ideas against the design criteria and consider improvements to my work?			
Can I select and use a range of tools to aid me in cutting, sticking and creating my home?			

	<u>New Vocabulary</u>	
Net: A pattern that yo	ou can cut and fold to make a model of a solid shape.	
Tab: Fold on the edge	of a net used to stick the net together to make a 3D shape.	
Design: A plan or drav	wing produced to show the look and function of a product before it is made.	
Evaluate: State what	you think about something, giving reason why you like or dislike that design.	
Prototype: Make a mo	odel to test the design before the final product is made.	
Scale: How big or sma	all the drawing is. Normally talks about if the drawing is drawn as large or small as it would	ı
	Stick in class mind map	
	What I already know in one colour	
	What I want to know in another colour	
	Children to tick off/add to around the edge as appropriate	

Norman Foster 1935

key buildings of the last 30 years, but also as the founder of perhaps the most financially NORMAN FOSTER is an architectural phenomenon; responsible for a dozen or more of the

successful architectural practice of modern times.













Research - Looking at Nets

	What is the name of the 3D shape that this net will make?
	How many tabs does this net have?
	What part of a house could this net be used for?
	What is the name of the 3D shape that this net will make?
	How many tabs does this net have?
	What part of a house could this net be used for?
	What is the name of the 3D shape that this net will make?
	How many tabs does this net have?
	What part of a house could this net be used for?
	What is the name of the 3D shape that this net will make?
	How many tabs does this net have?
CONE	What part of a house could this net be used for?

What is the name of the 3D shape that this net will make?
How many tabs does this net have?
What part of a house could this net be used for?
What is the name of the 3D shape that this net will make?
How many tabs does this net have?
What part of a house could this net be used for?
What is the name of the 3D shape that this net will make?
How many tabs does this net have?
What part of a house could this net be used for?

Looking at Nets

Pick a net that you might use for your house design. Draw the **net** making sure that you are careful with the **size of the net**. Make sure you use a **ruler**.

How many faces doe	es the shape have?
Does the net have ta	ı bs ? How many?
How many folds ?	
My	Package Design
Design criteria: <u>To de</u>	esign a small 3D house to make a village. Use
Design criteria: <u>To de</u>	

, 3	-B co mano re roon accin	active? (Colour, Pictures, Window	.,
To make a 3D ho	use I will need the foll	owing items.	
I will need:			

Design Research - Homes



My Design – Idea 1

The main net	of my house will look	like (Measurements no	ot to scale):	
What the fini	shed house will look l	ike:		
What the fini	shed house will look l	ike:		
What the fini	shed house will look l	ike:		
What the fini	shed house will look l	ike:		
What the fini	shed house will look l	ike:		
What the fini	shed house will look l	ike:		
What the fini	shed house will look I	ike:		
What the fini	shed house will look I	ike:		
What the fini	shed house will look I	ike:		

My Design – Idea 2

/ The main net of m	y house will look like (Measurements not to scale):	
What the finished	house will look like:	
		,
		/

Testing my Design

Draw the net you have designed on a piece of paper. Cut out the net to see if it works. This is your prototype.

Do you need to change anything about your design? What do you
need to be careful with?
Draw your net again and label with the measurements you will use in
your final product:

Evaluation sign these are the things I was

with
My favourite thing about my house is
These are the things I would change next time
I would give my house 1 2 3 4 5 for meeting the design brief
I would give my house 1 2 3 4 5 for its net
I would give my house 1 2 3 4 5 for presentation and overall finished look