

# Home Learning Introduction: Topic 12 Let's Build! Homes (Las Casas) and Structures

We hope you are all keeping safe and well. These may be of help to you, particularly if you are trying to manage several children's needs or have limited access to the Internet. *Page 1: activities – no IT needed Page 2: web links - if you have internet access and some extension.*

## Wellbeing and Building Resilience

For resources to support this please click this link to our Padlet: <https://padlet.com/HLTWellbeing/jukwcst2scmfbd7t> or use this QR code:



### Being Kind

#### Being Kind to Yourself – Getting a good night's sleep

Getting a good night's sleep is very important. Our bodies all require long periods of sleep in order to give our brains a chance to comprehend and sort out all of what we have learned during the day, to grow muscle, repair tissue and to manage and manufacture our hormones.

As you continue to grow, you will find your sleep patterns change. Your sleep patterns can also change depending on your emotions, for example, if you are worried, stressed or upset about something.

Did you know that 6–12-year olds should be getting 10 – 11 hours of sleep per night?

Did you know that insufficient sleep could lead to low mood, weight gain and an inability to learn?

Here are some ways to ensure you have a good night's sleep:

- Try to wake up and go to sleep at the same time every night (even on weekends!) Try to aim to be in bed before 9pm
- Have a 'calming down' routine before going to bed e.g. a bath or shower and quiet reading time and/or some calming mindfulness listening activity
- Avoid sugary foods in the later afternoons and before bedtime
- Avoid screens (on tablets and phones) one hour before bedtime
- Always talk to someone if you are worried, upset or feeling stressed about something . You could also write your feelings down.

For further website support visit [here](#)



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How does this person feel?

See on the 3rd page list of children's books and mindfulness activities to help children get a good night's sleep!

### The great dilemma, questions to think and talk about (Philosophy for children: P4C)

What is the difference between a 'home' and a house? What makes a house a home? Is home where the heart is? What else is there?

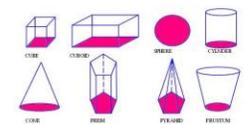
[Watch This is Our House](#) by Michael Rosen. What was wrong with the way George behaved with the others not letting them in to the house? How did that make his friends feel? What would you have said to George (in a kind way!)? What did George feel like when he saw all his friends in 'his' house? What do you think George has learned from this? Tell an adult a time when you shared well with your friends.

## Maths

### Shapes

Look in your house for different 3D objects.

Can you use these to build a structure for a home? It does not need to be a traditional home. Try to be creative. Have you seen Grand Designs on TV? They use unconventional shapes and materials to build unique properties. See how many different 3D shapes you can use and think about the practicality of each.



### House Numbers Investigation

On one side of a street the house numbers are odd numbers: 1,3,5,7 etc.

On the other side of the street the house numbers are even numbers 2,4,6,8 etc.

Jamie lives at number 21. He predicts that the sum of any two door numbers next to each other on his side of the road will always be an even number and next-door numbers on the other side of the road will be an odd number. Is he correct?

Is the sum of two odd numbers always even? Why?

Is the sum of two even numbers always even? Why?

What about subtraction? Can you complete the rules

O+O=  
E+E=  
O-O=  
E-E=

### Carpet Area

Alex is getting new carpet fitted in different rooms in his house. He needs your help to work out how many square metres he will need to buy and how much it will cost. The cost varies depending on how many square metres of carpet you buy. The more you buy, the cheaper the price per square unit. Remember - LXW=A

**Room measurements**  
Bedroom 1: 4m x 3m  
Bedroom 2: 2m x 2.5m  
Living room: 4.5 x 3 m

#### Cost

1m to 5m sq. = £35 per metre sq.  
6m to 20m sq. = £30 per metre sq.  
21m to 50m sq. = £25 per metre sq.

How much will Alex have to pay to have all 3 rooms in his house carpeted?

What if he only wanted to carpet the bedrooms - how much would this cost?

## Topic 12: Let's Build! Homes (Las Casas) and Structures

#hackneyhomelearning @hackneysuccess Hackney

This topic is all about observing and celebrating the homes, houses and structures around us!

Have fun looking at the structures in your local area using the app:

<https://colouringlondon.org/view/construction>

Have a go at thinking about what houses might look like in the future!

Make sure you continue to socially distance as you walk around your local area.

**This week's challenge: Build a structure and make it as tall and strong as possible.**



- ❖ a tower or tall building out of Lego, junk modelling
- ❖ A den in the woods or out of household objects like pillows
- ❖ A bridge that can hold 1kg? Use old food packets, sellotape etc.
- ❖ A castle with a drawbridge and moat



Extra challenge: Can you add anything that makes your structure more effective e.g. add a light, string to make a pulley system, reinforce with another layer?

**For parents and carers: For those who have been affected by the incident in Forbury Gardens, Reading on 20 June 2020**, or any other terrorist incident, please click [here](#) for further advice. This website also provides details of official helplines and support services available to victims, survivors, witnesses, family members, and all those affected.

**Talking to children about terrorism (support for parents/carers and schools):** For support and guidance in discussing a terrorist attack with children in the primary phases, please find further information through the [PSHE Association](#), [LGL](#), [Educate Against Hate](#), [NSPCC](#) and [Childline](#) websites.

**For schools:** If schools have specific concerns relating to extremism or require further support email [counter.extremism@education.gov.uk](mailto:counter.extremism@education.gov.uk).

How do different animals build their homes?

Consider the different homes of these different animals:

- Beehive
- Rabbits burrow
- Birds nest
- Badger set
- Termite mound
- Beavers dam

What sorts of materials are used to build the home?

How are they constructed?

Are they made by one animal or are they made as a group?

What size and shape structures do they build?

Present your homes of animals on a poster. Can you compare them?



## Science

### Monsoon Proof Roof

What material are roofs in new buildings in your area made from?

What materials are the roofs in older buildings made from?

Is there any link with what is locally available? (e.g. stone, slate, clay tiles...)

Why do modern buildings use materials bought in from elsewhere?

Why might a family change from using traditional materials for their roof to newer materials?

Mehrab and his family in Bangladesh need your help. Buildings in Mehrabs village are made of straw. They are worried about having a flood free home in Monsoon season. What material do you think Mehrab should suggest his parents use for the roof of their new home?



Monsoon Proof Roof STEM activity <https://www.stem.org.uk/elibrary/resource/36285>

### Houses and Homes in the Future

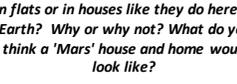
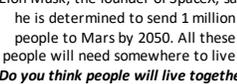
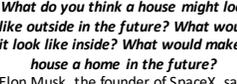
What do you think homes will look like in the future?

Some children have already thought of what homes will look like in the future here on Earth – they have said we could live in mobile homes, weather-proof houses, solar powered homes using smart home technology, wellness homes and even edible homes! Have a look at all the ideas and designs [here!](#)

**What do you think a house might look like in the future? What would make it look like inside? What would make a house a home in the future?**

Elon Musk, the founder of SpaceX, says he is determined to send 1 million people to Mars by 2050. All these people will need somewhere to live!

**Do you think people will live together, in flats or in houses like they do here on Earth? Why or why not? What do you think a 'Mars' house and home would look like?**



## Humanities

### Homes and Houses Quiz

Use these words to solve the quiz:

terraced bungalow  
cottage detached  
flat caravan  
semi-detached

1. Sometimes houses are built as a pair – two houses built together side by side? Each house is called a \_\_\_\_\_ house.

2. Some people live in a home on wheels. This is called a \_\_\_\_\_.

3. Some people live on one floor in a large, tall building. This is called a \_\_\_\_\_.

4. Some houses stand alone. This is a \_\_\_\_\_ house.

5. Some people live in a house in a village or the countryside. A house in a village is sometimes called a \_\_\_\_\_.

6. Some people live in a house with one floor and no stairs to an upstairs part of the house. This is called a \_\_\_\_\_.

7. Some people live on streets with lots of houses on a row. This house is called a \_\_\_\_\_ house.

Answers on the next page!

### Homes and Buildings where you live...

#### The treasure hunt!

You will walk past different buildings that are used for different purposes.

Make a table of the different buildings you could find (see below). Take a walk and see how many you can spot!

**Can you find: (add in your own ideas too!)**

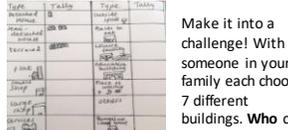
Houses: *Detached, Semi-detached, terraced, bungalow*  
Flats: *a block or above a shop*  
Small Shops: *food, clothes, newsagents, hairdressers etc.*

Services: *Banks, Doctors, Pharmacy*  
Large shops: *supermarkets*  
Offices: *places where people work*

Places to eat/drink: *Restaurants/ cafes*  
Leisure facility: *somewhere you do sport or be entertained swimming pool, tennis courts, cinema, theatre*

Public outside space: *Park, garden*  
Place of worship: *church, synagogue, Mosque, Temple*

Educational buildings: *schools, colleges, nursery's etc.*



Make it into a challenge! With someone in your family each choose 7 different buildings. Who can find the most?

You could then turn your tally into a bar chart OR make a map and use a key to show what the buildings are. For a trickier challenge try to make a bird's eye view map as if you were looking down from the sky!

### Houses and homes around the world

Houses are different around the world, depending on different cultures, climates and needs. They are made of different materials.

The Inuits in northern Canada and Greenland make specific houses out of a specific material! Their houses are called igloos and are made from blocks of packed snow. Can you make an igloo out of blocks of ice or marshmallows? Native Americans make teepees! What are they? What are they made from? Why do you think would people in South Asia and South America build their houses on stilts? (due: it is very rainy in these parts!)

What types of homes are built in large cities? What are these homes made from?

**If you lived in this place, what would you build a home with? How does it compare with where you live?**



## Literacy

### Here is the House A poem by Ken Nesbitt

Here is the house on the street in the town where the downstairs is up and the upstairs is down.

The people who live here all stand on their heads. They sleep on the ceilings and can't reach their beds.

The basement's the attic. The roof is the floor. They climb up a ladder to crawl through the door.

Their pets run in circles because they're all dizzy. This house is confusing and everyone's busy.

The downstairs is upstairs. The upstairs is down since twenty tornadoes blew into the town.

Goodness! What is wrong with the houses? Can you imagine what the houses look like? Can you draw a picture of the house to match the poem?

**Have a go at writing your own poem just like this!**

You could start with: Here are the flats in the block on the street where the people who live here eat upside down with their feet...

### Story Telling!

Think about the structure you made – is it a castle, tall tower or did you build a den in the woods?

Make up your own story about your creation - will it be a fairy story set in the woods or an exciting adventure about a castle? Maybe there's 'a troll under your bridge? Practise telling your story out loud and then ask a parent, sibling or friend to be the audience.

If you made a den, tell the story inside it if you can. Use your den as a lovely place to read over your favourite story books too.



### Imagine a house in time!

This is Sutton House in Hackney built in 1535 by Ralph Sadleir, a man in Henry V11's court.



Imagine you went there on a school trip but when you entered this room you got swept back to 1540 – nearly 500 years ago!



Write a letter home asking for help to escape from the past! Tell them:

What would you see? How would you feel? Did you meet someone? Remember there would be no TV or electricity. There would be no toilets and bathrooms!

Dear Mum, Help me! I am trapped in the past. I was enjoying the school trip (although I wanted my lunch) but then...

## Creative Arts

### The Jelly Pick Challenge

Using 30 jellybeans and 60 toothpicks, create a structure with your family or by yourself.

Consider how you can make your structure the strongest.

Can you build a tall structure? Will you build one structure or many which you can join together?

Challenge your friends and neighbours to make one too. Could you try an online challenge with a friend or relative?



You could try the same activity with dry spaghetti and mini marshmallows. Think about which shapes you create that are the strongest.

### Do you have a favourite building in the world?

Maybe you've never been there - just to your imagination. Maybe you'd like to take a trip to the Egyptian Pyramids to meet the mummies or climb the Eiffel Tower to see Paris from up high, or how about checking out The Shard in London.

Choose your favourite, make it from junk modelling or draw and label it.

You could research about your building, who designed it, who built it and when? Who uses your building?



### Making houses or huts

We have all seen houses not made with standard building materials.

Inuits have built igloos from blocks of ice and snow; The Korowai people from a small area in Indonesia are known for building homes in trees (tree houses). Native Americans used Wigwams that they could take down and move easily. Can you build a home from things around your home or in an outside space?

### David Adjaye

David Adjaye is a British-Ghanaian architect. He is considered by many to be one of the best architects in the world today. His work tends to feature historical motifs in decorative patterns.

What is an architect? What are blueprints? What do architects use to make their drawings? Here below is some of David's incredible architecture! Can you plan, design and draw your own building? What would the building be for? What materials would it be made from? Recyclable materials? What patterns would you include on your building?



# Topic 12: Let's Build! Homes (Las Casas) and Structures

These are links to websites – please practise Internet safety with your children whilst accessing these websites.



## Literacy

Read aloud: The True Story of the three pigs by Jon Scieszka: <https://www.youtube.com/watch?v=1Q01X8JU3GU>  
 Have a go at writing your own poem: <https://www.poetry4kids.com/lessons/poetry-writing-lessons/>  
 Historical stories to listen to: <https://www.bbc.co.uk/teach/school-radio/audio-stories-historical/zdy67nb>  
 Story telling idea as: <https://www.imagineforest.com/blog/storytelling-activities-kids/>  
 Free Aquila magazine has a page on making a pillow fort and a mathematical task on 'Towers of Hanoi.' <https://view.joomag.com/aquila-childrens-magazine-magnificentmega-mag-92pages/0684174001584550709?short>

## Science

Houses and Homes STEM cross curricular including downloadable pack on vertical structures NSEW: <https://www.stem.org.uk/r/resources/community/collection/277252/homes-and-houses>  
 Designing and building bridges: <https://theimaginationtree.co.m/designing-and-building-bridges-activity/>  
<https://www.bbc.co.uk/bitesize/clips/zjvfb9g>  
 Different Types of animal homes: <https://www.bbc.co.uk/programmes/p011mlyh>  
 Different places animals and birds live: <https://www.bbc.co.uk/programmes/p011n0xs>  
 Monsoon: <https://www.geographyinthenews.org.uk/issues/issue-5/ks3-global-citizens-ks2-monsoon-terror/ks2/>  
 Introduction to India with information about Monsoon: <https://www.bbc.co.uk/bitesize/clips/z4fr87h>  
<https://www.stem.org.uk/e-library/resource/36285>  
 Homes of the future: <https://www.bbc.co.uk/newsround/26515277>  
 Australian Underground Homes: <https://www.bbc.com/reel/playlist/homes-of-the-future>  
<https://www.bumblebeeconservation.org/>

Books Book For Topics: <https://www.booksfortopics.com/houses-and-homes>

## Humanities

English Heritage: <https://www.english-heritage.org.uk/learn/teaching-resources/>  
 National Trust: <https://www.nationaltrust.org.uk/houses-and-buildings>  
 Museum of the Home: <https://www.museumofthehome.org.uk/>  
 London's architectural History app lets you find buildings around London and information about how they were constructed; [archteachturefoundation.org.uk](http://archteachturefoundation.org.uk)  
 Find out more about your home in London: <https://colouringlondon.org/view/age>  
 Have you seen this building in Old Street? <https://www.in-pictures.co.uk/image/I00005s5xmFYwHU0>  
 St Augustine's Tower in Hackney: <https://www.staugustinestower.org/about>  
 Sutton House in Hackney: <https://www.nationaltrust.org.uk/sutton-house/features/delve-into-the-history-of-sutton-house>  
 Royal Academy redesign my street: <https://www.royalacademy.org.uk/article/family-how-to-re-design-street>



Useful websites for parents and carers:

1. In response to the coronavirus lockdown and backed by the Government, The Oak National Academy website, is a new collection of high-quality lessons and online resources. For more information for parents and carers: [click here](#)  
 2. The National Education Union has published a new website for providing advice, latest news and resources for parents and carers on the [Coronavirus crisis](#):  
**Wellbeing, building resilience and PSHE:**  
 1. Books to support a good night's sleep:

<b>Sleep Book:</b> <i>Dr Zeuss</i>	<b>Sleep Like a Tiger:</b> <i>Mary Logue</i>	<b>The Rabbit Who Wants to Fall Asleep</b> <i>Carl-Johan Forssén Ehrlin</i>	<b>Time for Bed: Mem Fox</b>	<b>Sheep Go to Sleep:</b> <i>Nancy E. Shaw</i>	<b>Can't You Sleep Little Bear:</b> <i>Martin Wadell</i>

2. Everybody Worries by Jon Burgerman: [click here](#)  
 3. Talking to children who are worried about coronavirus: [click here](#)  
 4. The CAMHS Alliance for Hackney has produced a comprehensive list for parents and carers [click here](#)

Films and TV shows

Home Alone, Bob the Builder, Bridge to Terabithia, Up, Swiss Family Robinson, George Clark's Amazing Spaces, Grand Designs, Justin's House (Cbeebies), The House With a Clock In It's Wall (PG), The Borrowers (PG), The Dengineers (CBBC)

Websites

Black Lives Matter: lesson and discussion on recent events regarding George Floyd (Year 4, 5 and 6): [click here](#)  
 Teaching children compassion: The Seed of Compassions by His Holiness the Dalai Lama   
<https://www.stem.org.uk/resources/community/collection/277252/homes-and-houses>

### In memory:

Dame Zaha Mohammad Hadid was a British Iraqi architect. Her design for the London Olympics 2012 building is now the iconic London Aquatics Centre. Have you seen how the roof sweeps up just like a wave? In 2004 she became the first woman to be awarded the [Pritzker Architecture Prize](#). She was made a Dame by Queen Elizabeth for her services to architecture. She sadly passed away in 2016. Her wonderful architecture designs will remain with us for many years to come!



## Religious Education

Can you identify and name some religious places in your local area? Can you locate them on a map? You could use Google maps to support this, and can include Halal/Kosher food shops, for example. How do the features of a Gurdwara support the Sikh belief in equality? <https://www.truetube.co.uk/film/holy-cribs-church?tab=film>  
 Are there any features in the Gurdwara that are similar to other buildings of communities you belong to? How are they similar? What values do they show/promote? How?, <https://www.truetube.co.uk/film/charlie-and-blue-go-gurdwara>  
<https://www.youtube.com/watch?v>



Learn how to say all the types of homes in Spanish [here](#)  
 A story of a visit to the Museum of the Home [click here](#)

## Maths

Design a new house: <https://nrich.maths.org/61>  
 Lanchester Garden Centre 3D shape structures: [https://lanchestergardencentre.co.uk/wp-content/uploads/2019/10/maths\\_ks2.pdf](https://lanchestergardencentre.co.uk/wp-content/uploads/2019/10/maths_ks2.pdf)  
 What are odd and even numbers? KS1: <https://www.bbc.co.uk/bitesize/topics/zknsqk7/articles/zt4j6f>  
 Next – door numbers: <https://nrich.maths.org/13665>  
 Estimating and measuring an area: <https://www.bbc.co.uk/bitesize/clips/zs26sbk>  
 What is area? : <https://www.mathsisfun.com/geometry/area.html>

### Quiz Answers

- 1) Semi-detached 2) Caravan 3) flat 4) Detached 5) Cottage 6) Bungalow 7) Terraced