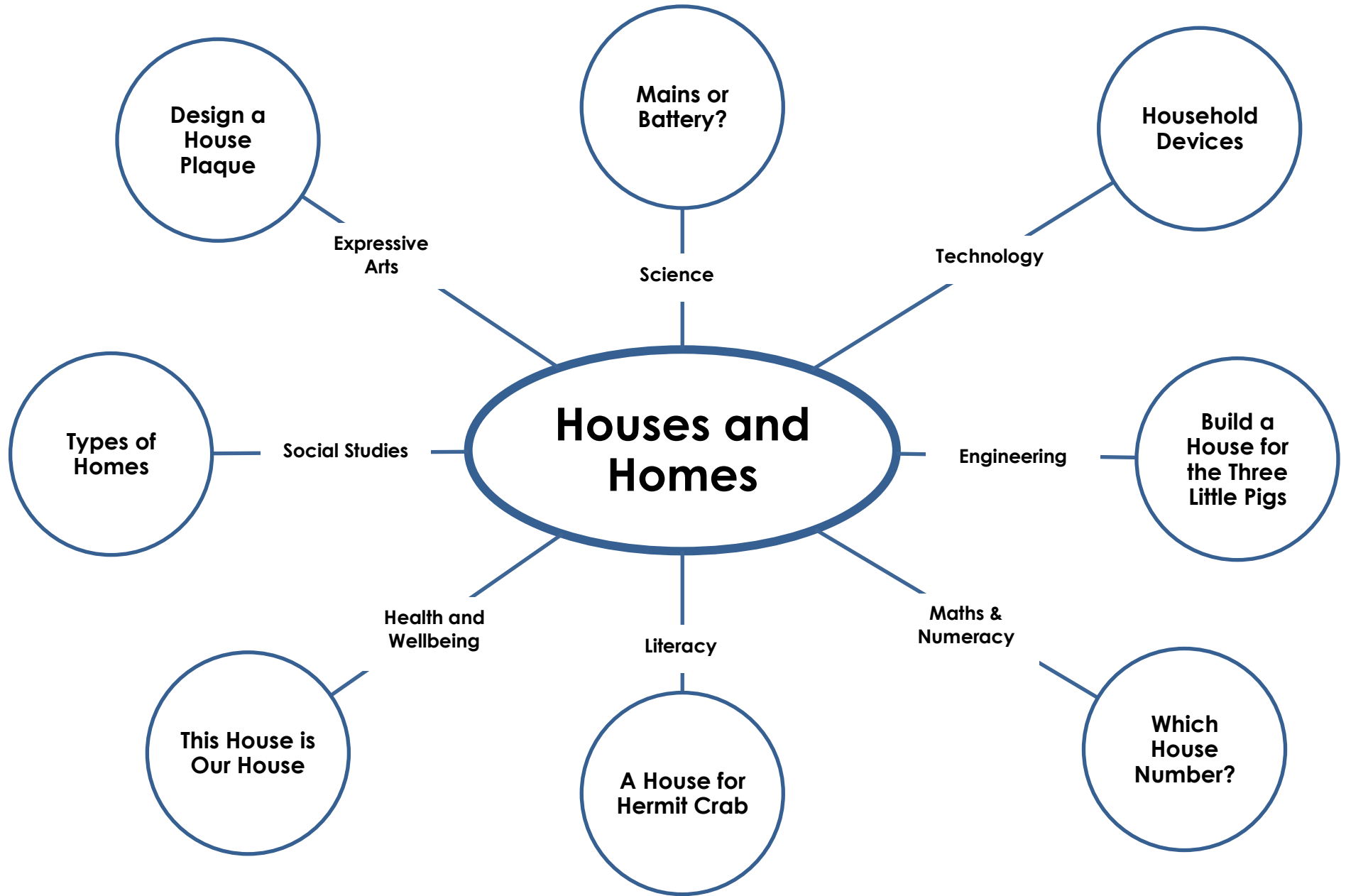


Learning from Home

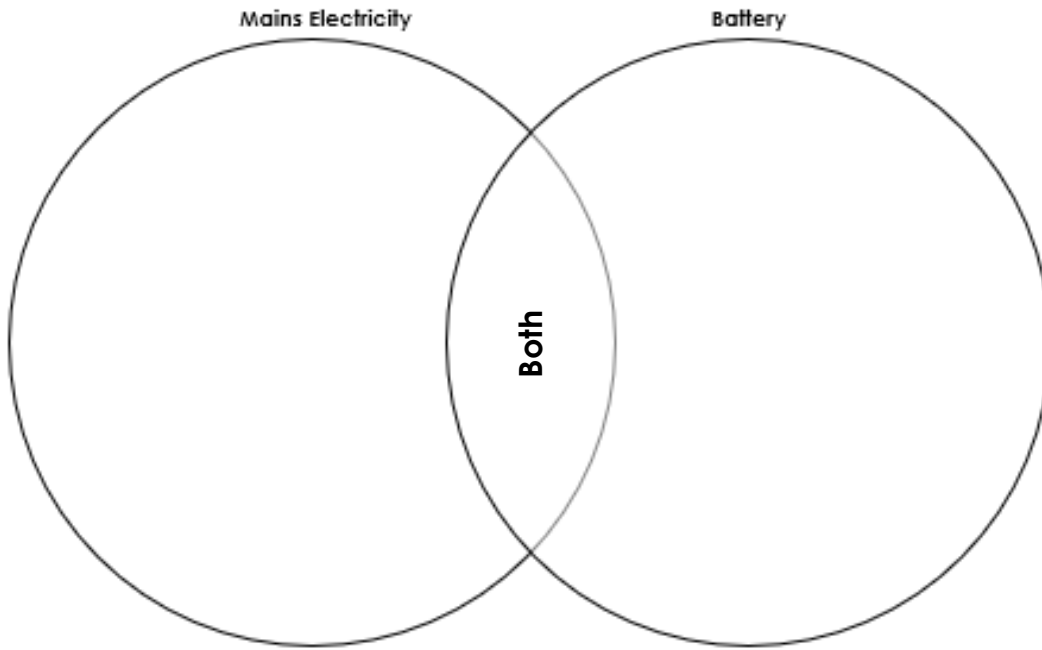


Science Challenge



Mains or Battery?

We all use electricity as a form of energy to power gadgets in our homes. Some items need to be plugged in to get them to work and others use stored energy in the form of a battery (or batteries).



Task: Have a look at the pictures below then cut them out. *Adult Supervision Required*

Can you sort them into those which need to plug in to the mains and those which use batteries? Some gadgets may use both and they need to be placed where the two circles overlap on the Venn diagram.

Activity and Images from TES

The Science: Electricity is a form of energy that is very important in our daily lives. Many of the gadgets we have in our homes require electricity to make them work.

Houses are connected to the electricity network via wires and cables, and we can access this power by plugging items into electrical sockets. However, not all electrically powered items have plugs.



Some items, usually smaller and requiring less energy, use batteries instead. A battery stores chemical energy and converts it to electrical energy. Some gadgets can use both mains power and batteries.

Technology Challenge



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Household Devices

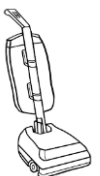
Today, many people's homes are filled with technological devices and gadgets to help them in their daily lives.

Some devices help us complete housework tasks, others provide us with entertainment and others help us to save energy.

Task: Talk to an adult about the devices /gadgets below then **with adult support** fill in the chart, sorting the items by whether they are used to help with housework, entertainment or to save energy. Some items may be useful for more than one thing.

toaster	smart meter	microwave	kettle	wind-up radio
laptop	blender	iron	shower	hair dryer
washing machine	vacuum cleaner	tumble dryer	smartphone	
security camera	central heating	oven	TV	

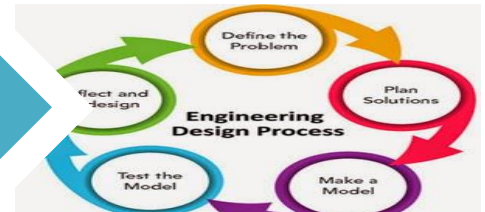
Housework	Entertainment	Save Energy



Can you think of any other devices or gadgets you could add?

Activity adapted from WAYLAND via TES
 Images from www.clipart-library.com

Engineering Challenge



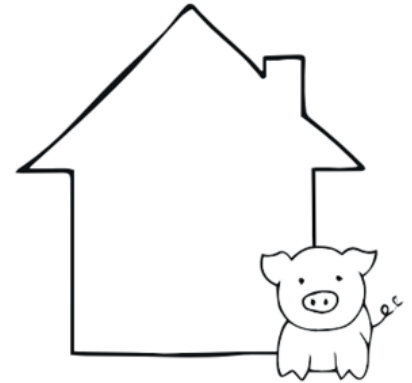
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Build a House for the Three Little Pigs

Adult Support Required

Most people know the story of the Three Little Pigs but if you don't, or you would like a reminder, you can watch a version of the story here:

<https://www.youtube.com/watch?v=2s7cz6p7jew>



Your Task: Design and build a house to save the three little pigs from the big bad wolf.

You Will Need: Materials you find around your house, in your garden, and / or things you can collect when you're out for a walk, twigs, cardboard – flat and tubes, straws, building blocks, 3 toys (pigs) small enough to fit into your house, squeezey bottle, small fan or hairdryer to use as wind

Plan it: Think about how you will make a sturdy strong house for the pigs. Make a list of the things you will use and draw what you think the finished house will look like.

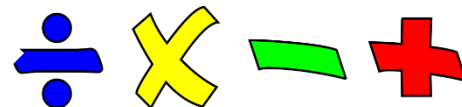
Build it: Build your house using your selected materials.

Test it: Put your 'pigs' inside the house. Now pretend to be the Big Bad Wolf. Blow on your house to see if you can blow it down. As a further test use an old, empty squeezey bottle. If you squeeze the sides, it will blow out air and you can also use this to test your house.

Improve it: Did your house blow down? If it did, can you make your house better? What would you change?

Image from www.science-sparks.com

Maths & Numeracy Challenge



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Which House Number?

Poor Mr Forgetful has forgotten which house he lives in.

Task 1: Find the answers to the addition and subtraction calculations. Colour the boxes with your answers and follow the path to a front door to help Mr Forgetful get home. Which house number does he live in?



2	8	9	20
6	5	4	11
10	1	3	18
13	5	12	7

1.	$7 - 2 =$
2.	$0 + 1 =$
3.	$8 - 5 =$
4.	$1 + 3 =$
5.	$3 + 2 =$
6.	$10 - 4 =$
7.	$7 - 5 =$



Task 2: Little Miss Sunshine lives at number 9. Can you write some calculations of your own to help her get home on the grid above? **E.g., $5 + 0 = 5$**

Task 3: Little Miss Naughty has been very naughty indeed. She has deliberately muddled up the letters that Mr Stamp, the postman, was about to deliver. Can you put them back into the correct order?

16

7

30

11

25

15

14

3

Literacy Challenge



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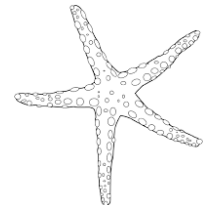
A House for Hermit Crab

Watch 'A House for Hermit Crab' by Eric Carle, by clicking here: <https://www.youtube.com/watch?v=ICV7txTqbUE>

Ask an adult to help you read the sentences in the table below.

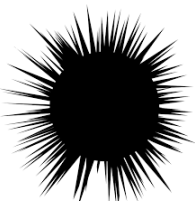
Task 1: Cut out the sentences *with adult support* and sequence (sort) them into the order they happen in the story. If you can't remember, then go back and rewatch the video.

Hermit crabs carry their homes on their backs.



Hermit crab's shell needed to be protected so he placed a spiky sea urchin nearby.	Hermit crab crawled into a bigger shell.
Hermit crab grew out of his shell.	The sea anemone climbed on the shell.
Hermit crab approached a pile of smooth pebbles.	Hermit crab was thinking his house was too plain.
Hermit crab invited lantern fish to swim around his shell.	The snail joined hermit crab's friends on his shell.
Hermit crab put the sea star on his house	Hermit crab's shell was in a dark place.
Hermit crab found a new little crab for his home.	The coral joined the sea anemone and sea star on hermit crab's shell.

Task 2: Write a sentence of your own explaining what the story is about and draw a picture to go with it.



Activity adapted from TES

Images from www.clipart-library.com



Health & Wellbeing Challenge

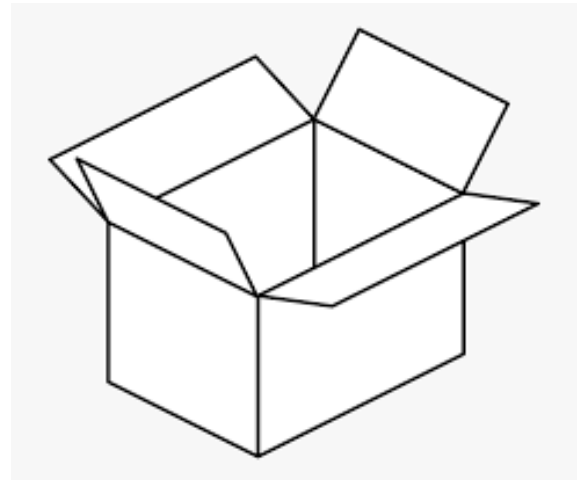
This House is Our House

'*This House is Our House*' by Michael Rosen is a story about friendship and sharing.

Click here to watch the story: https://www.youtube.com/watch?v=wf_n6yjr9T0

Task 1: After reading / watching the story talk to an adult about the following:

1. Was George being fair to everyone?
2. How do you think the child who couldn't play felt?
3. What should the children do?
4. How did the children teach George to be fair?
5. What else could they have done?
6. What could you do if this happened to you?
7. Do you think George will play fairly next time?
8. Is it fair to tell someone they can't play with you?



Task 2: Draw a picture of yourself. Now think of words which describe a good friend – kind, smiling, shares, helps etc. Write these words in bright, bold letters around your picture.



Images from www.clipart-library.com

Social Studies Challenge



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Types of Homes

Across the world, people live in many different types of homes. Some people live in houses made from bricks, others live in tree houses, caravans, tents, mud huts or even igloos to name a few.

Read these descriptions about the most common types of homes in Scotland.

A **bungalow** is one storey high. All the rooms are on the ground floor.

A **detached** house stands all by itself. It is not joined to other houses.

Flats are homes stacked on top of one another in the same building.

High-rise flats are in a tower with many floors.

Semi-detached houses are two houses joined as a pair.

Terraced houses are joined together in a row.



Task 1: Using the information above, look at the pictures and write (or cut and stick) the correct label for each one.



bungalow	detached
flats	high-rise
Semi-detached	terraced



Task 2: Finish this sentence: I live in a _____.

Activity and images from WAYLAND via TES

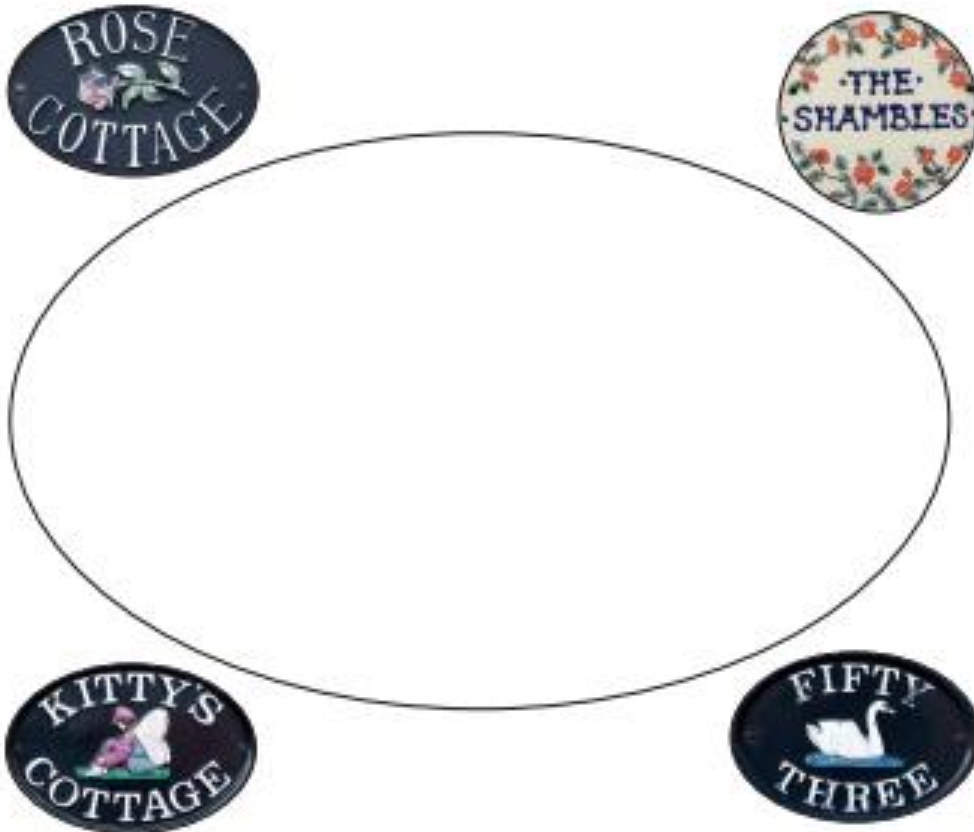
Expressive Arts Challenge



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Design a House Plaque

People have been using house signs since ancient times to personalise a dwelling, turning a house into a home.



Your Task: Design a name plaque and a number for your own home. If your house has a name, you could use that, or you can make one up. Look at the pictures to get some ideas. You can use whatever media you like, and you can be creative as you like in your design.

You can use the templates here for your work or if you have your own paper or card, you can use that.



Activity and image from TES