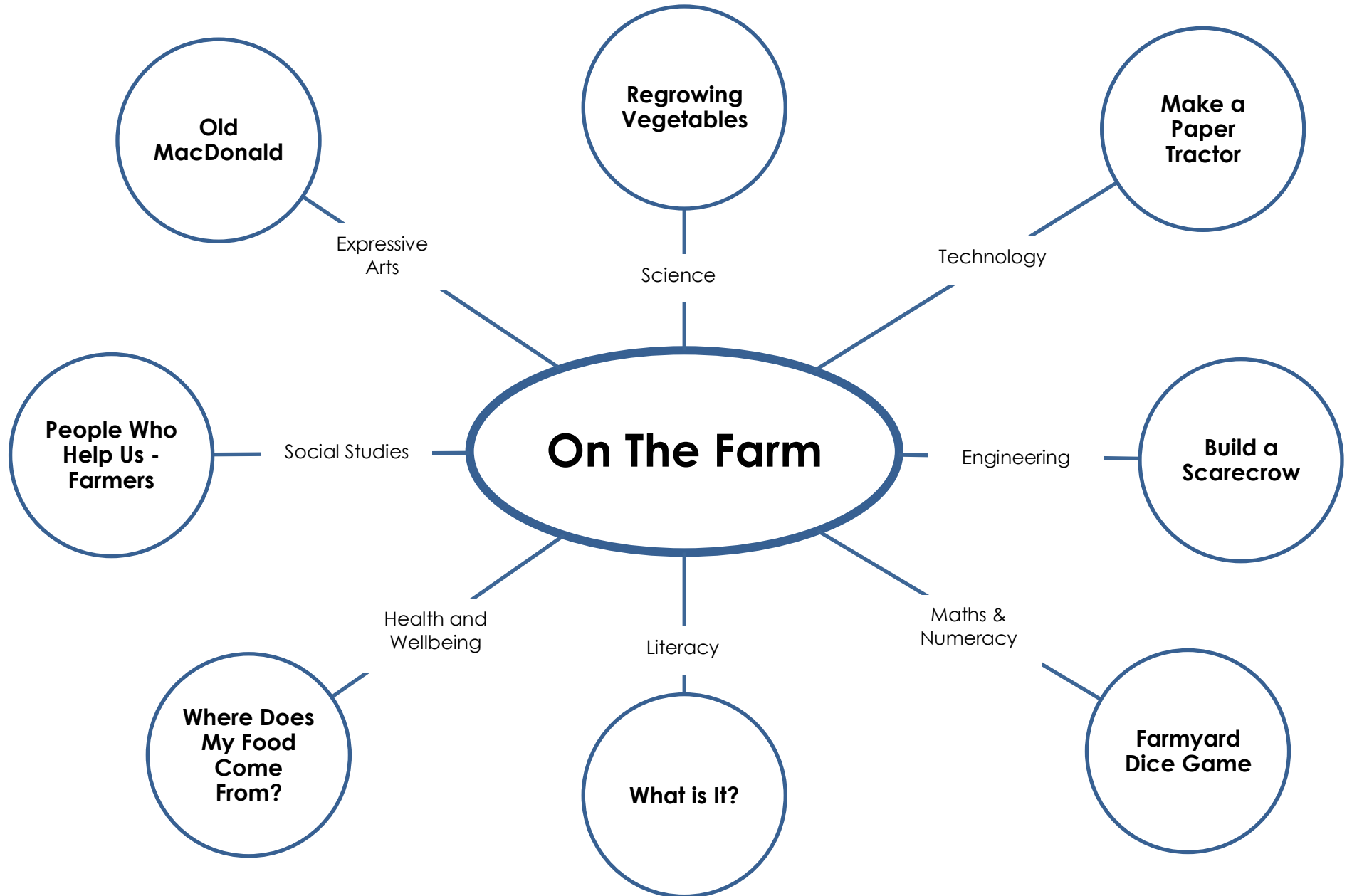


Learning from Home



Science Challenge



Regrowing Vegetables

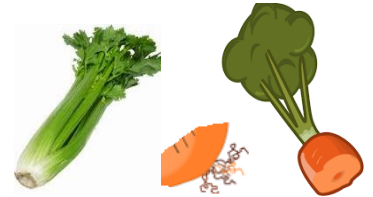
Adult Support and Supervision is Required!

Talk to an adult about what happens if you don't use up your vegetables in time. Have you ever seen them sprouting roots or shoots? Did you know that you can sometimes regrow vegetables, at home, almost free of cost? You don't need seeds and you don't even need a garden!

Today's Science activity is all about regrowing vegetables.

You Will Need:

Water, bowls, vegetables for example: carrot, celery, onion, lettuce, whole beetroot (fresh, not picked), sharp knife, sunny spot like a windowsill



Safety Warning! Ask an adult to help cut the vegetables as the knife will be very sharp and you could cut yourself.

Instructions:

1. Place the top, cut-off end of a **carrot** in a shallow bowl of water. After a few days, the green leaves will shoot from the top. Keep inside and place in a sunny spot, like a windowsill.
2. **Onion, beetroot, lettuce** – use the bottom part of the onion, beetroot and / or lettuce and do not remove any root parts if there are any. Place them in a bowl of water and place in a sunny spot like a windowsill. **Note:** the beetroot could stain your fingers – you may want to wear some kitchen / disposable gloves.
3. **Celery** - cut off the bottom 8cm of the stalk and place in a small bowl of water. Keep inside and place in a sunny spot.
4. Observe your vegetables every day - can you see any new growth? What is growing - the shoots, leaves or roots?



The Science: We can sometimes regrow small off cuts of vegetables and herbs that you would already have bought as part of your weekly food shop. Some of the parts that you'd normally throw away can actually be used to grow new vegetables. Using this approach, you could grow your own vegetables, salads and herbs and, in theory, never have to buy any ever again! In reality, this is not practical for most of us at home as we don't have the space, or the time to look after them but this is basically what agricultural farmers who grow vegetable crops do on a large scale.

Images from www.clipart-library.com Activity adapted from Twinkl

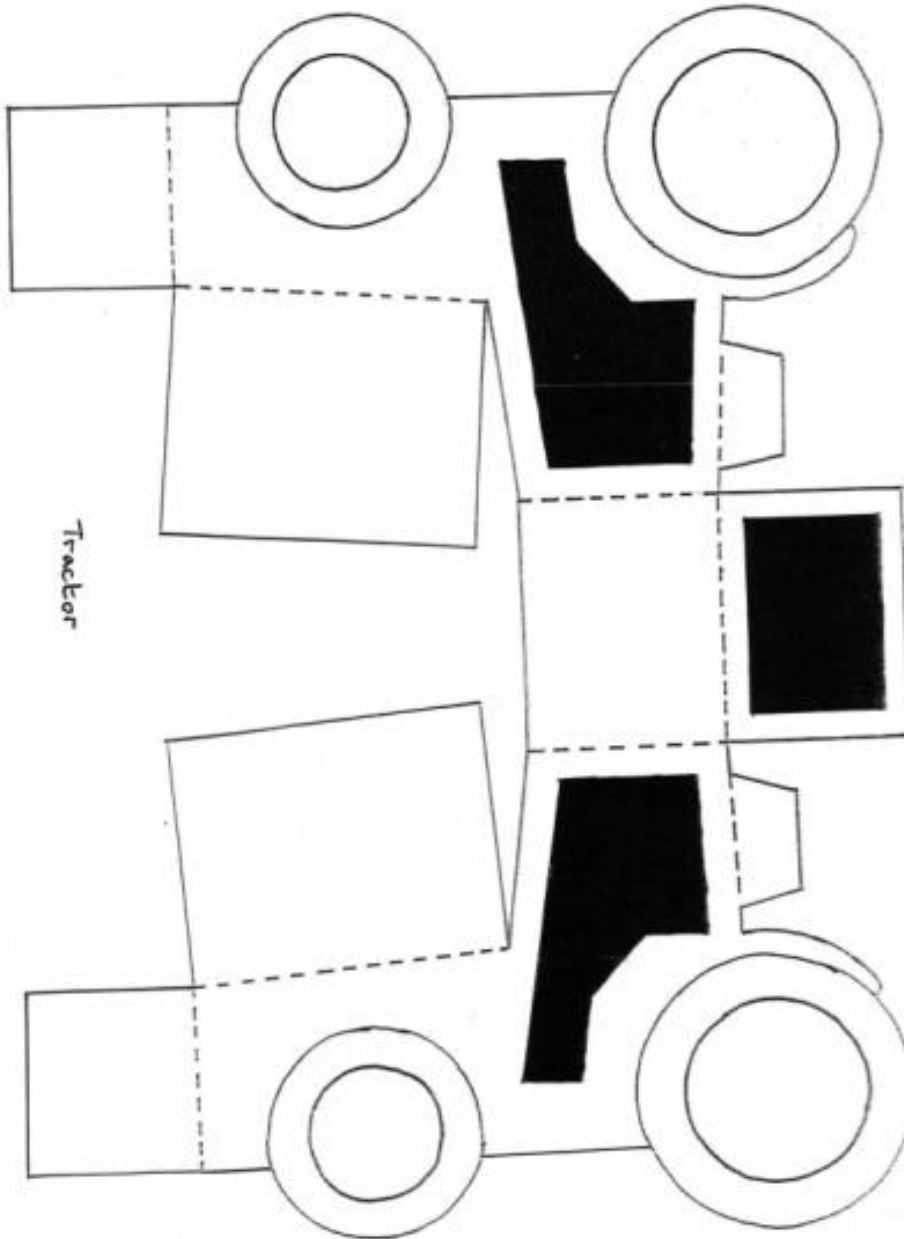
Technology Challenge



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Make a Paper Tractor

Adult Supervision / Support Required!



Your Task: Make a tractor using the template. It could be printed out on card or if on paper, it could be stuck down on card first before cutting out.

You Will Need: paper and / or card, glue, sticky tape, scissors, colouring pens / pencils and any other items you choose to decorate.

Instructions: Cut along the solid lines and fold across the dotted lines. Use the flaps to join your structure together. **(Ask an adult for help when using scissors)**

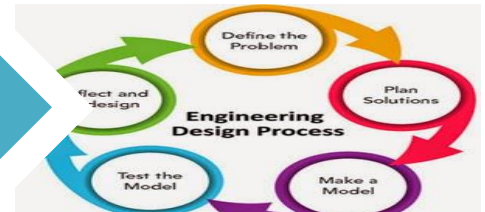
Decorate as desired.

Extension: Can you make models of anything else you might see on a farm? This could be a farmhouse or farm animals.

Activity and template from TES

Which materials could you choose for each?

Engineering Challenge



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Build a Scarecrow

A scarecrow is a device planted in the ground to deter birds and other animals from eating and disturbing seeds and other crops. A scarecrow usually looks like a person and is made by using straw to stuff out old clothes. The scarecrow will not be totally stiff and should move in the wind to make it look like it is alive.



Challenge: Design and make your own scarecrow. **(Adult help will be required!)** It could be life-sized, or you might want to make a small one using dolls clothes.

Plan It: What old clothes do you have? If you don't have straw – what else could you use to stuff it with? How will you plant it into the ground but still allow it to move in the wind?

Build It: Draw a picture of what you think your scarecrow might look like wearing the clothes you have found. Where will you plant it – do you have your own garden? What will you use to make its head?



(Ideas for building materials include: broom poles, straw, packing from delivery boxes, old towels, string, old tights, old clothes, such as a shirt and jeans or dungarees, pillowcase, an old hat, old or rubber gloves, scissors, coloured pens)

Test It: place the scarecrow in your selected area of ground and watch. Does it stay upright? Can it move its arms and legs freely, does it look like a person from a distance? Is it keeping the birds away?

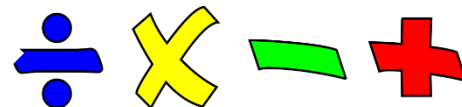
Reflect: Is there anything you could improve? Would different clothes sway more in the breeze? Can you add any features to the face?

Improve It: Use any ideas from your reflection to improve your scarecrow.

Note: **Ask permission first before using any clothes!**

To watch a scarecrow being built, click here: https://www.youtube.com/watch?v=cWqD_nukA0k

Maths & Numeracy Challenge

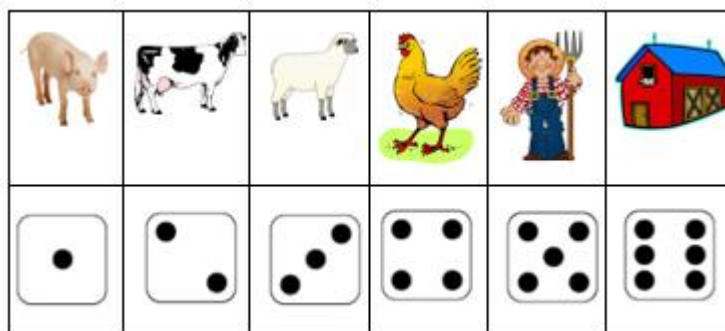


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Farmyard Dice Game

You can play this activity by yourself or with a partner.

Each player takes a turn rolling a dice. Fill in (colour in) one square of the animal that was rolled (using the chart below) Keep taking turns until one of the animals or the barn reaches ten.



Images from www.clipart-library.com

There are several variations of the game you could play:

- a. You could draw your own grid and extend the numbers up to 20.
- b. You and a partner could have a grid each – who can fill in all their squares first.
- c. You could play with 2 dice instead of 1 and colour 2 pictures at a time. If you get a double, have another go.

Can you think of any other ways to play?

| | | | | | |
|---|---|--|---|---|---|
| 10 | 10 | 10 | 10 | 10 | 10 |
| 9 | 9 | 9 | 9 | 9 | 9 |
| 8 | 8 | 8 | 8 | 8 | 8 |
| 7 | 7 | 7 | 7 | 7 | 7 |
| 6 | 6 | 6 | 6 | 6 | 6 |
| 5 | 5 | 5 | 5 | 5 | 5 |
| 4 | 4 | 4 | 4 | 4 | 4 |
| 3 | 3 | 3 | 3 | 3 | 3 |
| 2 | 2 | 2 | 2 | 2 | 2 |
| 1 | 1 | 1 | 1 | 1 | 1 |
|  |  |  |  |  |  |

Literacy Challenge



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What is It?

For this activity you will need to work with a partner. **DO NOT LET THEM SEE THE PICTURES ON THIS PAGE BEFORE THE ACTIVITY!**

Arrange two chairs so you can sit back-to-back, or alternatively, you could sit on the floor.

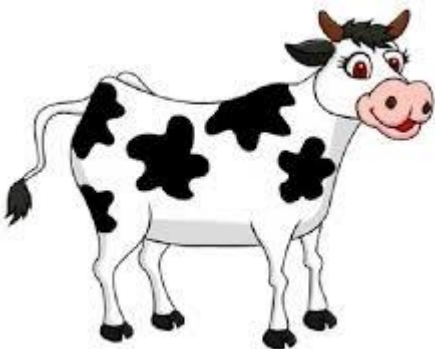
Your partner will need something to lean on, a blank piece of paper, a pencil and coloured pencils / felt tips. Ask them to listen very carefully.

Your Task: is to choose one of the pictures and to give your partner instructions so that they can draw it without seeing it. Try to describe the picture in as much detail as you can to help them. Your partner is allowed to ask you questions to help them, but they are not allowed to ask 'What is it?'

Ask your partner to listen carefully to what you are saying. Describe not only the shape and colour of each part to your partner, but also the size.

When you have finished giving your instructions and your partner has finished drawing, look at the picture together. Does it look like the original? If not, why not? Do you think your instructions were clear enough? What does your partner think?

You could look for more pictures if you want to have another go. You could also ask your partner to find a picture and give you the instructions with you drawing this time.



Images from www.clipart-library.com









Health & Wellbeing Challenge






Where Does My Food Come From?

Do you know where your food comes from, and I don't mean Tesco or Aldi or any other shop? Where do the shops get their food from before they can sell it on to customers?

Lots of our foods come from farms- eggs, milk, meat, even some fish. We get vegetables and fruit from farms as well as crops such as corn and wheat which is ground down to make flour which is then used to make loads of different things including bread, pastry, cakes, biscuits etc.

| Food | Comes from... | |
|--|--|---|
| bread | |  |
|  | |  |
| | pig | |
| ham | |  |
|  | COW (or sheep or goat) | |
| fish fingers | fish (e.g., cod, haddock, salmon or pollock) | |
| chips | |  |
| scrambled egg | | |

Task: Match up the foods in the table with the plant or animal they come from. Ask an adult to help you find out if you're not sure. You might have some books at home which could help, or you could do some research on the internet.

| | | | | | | | |
|-------|---|-------|---|--------|---|--|---|
| wheat | cow, sheep or goat | hens |  | cheese |  |  |  |
| pig |  | bacon | potatoes | milk | | | |

What is your favourite food? What is it made from and where does it come from?

Images from www.clipart-library.com

Social Studies Challenge



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People Who Help Us - Farmers

Our region, Dumfries and Galloway, has a strong farming tradition. But what is farming and what do farmers do?

A farm is a piece of land used to grow crops and/or raise animals for produce. People who grow this produce are called “farmers”, and their work is called “farming”

| Type of Farmer | Produce |
|----------------|---------|
| Dairy farmer | |
| Arable farmer | |
| Sheep farmer | |
| Cattle farmer | |
| Poultry farmer | |

Task 1: There are lots of different types of farmers. Have a look at the table – see if you can match the farmer up with the produce that comes from their farm. Can you think of any other types of farmers?

| | | | | |
|-------------|-------------------------------|--|----------------------|-------------------------|
| Meat (Beef) | Milk, cheese, yoghurt, butter | Carrots, potatoes, wheat, corn, barley, fruit etc. | Meat (lamb) and wool | Meat (chicken) and eggs |
|-------------|-------------------------------|--|----------------------|-------------------------|



Task 2: Click here to watch a video about Ben, who wants to be a farmer when he grows up: <https://www.youtube.com/watch?v=WtH7hNKyOD8> now talk to an adult about what it might be like to be a farmer. How could you be helping other people through your job? What do you think the best / worst parts of the job would be?



Images from www.clipart-library.com

Expressive Arts Challenge



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Old MacDonald

Most people know the song **Old MacDonald**, which is about a farmer and the animals on his farm.

Task 1: Click here to access a version of **Old MacDonald**:

<https://www.youtube.com/watch?v=RobT920n0qA>

Listen to the song to remind yourself of the tune and the order that the farmer meets the animals, then replay the song and join in, making the animal sounds too.

Task 2: Ask an adult or older brother or sister to watch you as you act out the different animals from the song. Try to make your body like each of the animals and move like they would. Can your audience guess each animal correctly?

Task 3: Choose one of the animals and find some pictures in books or on the internet. Draw a picture of it, trying to pay attention to the shapes and sizes of each body part and the different colours.



Image from www.clipart-library.com