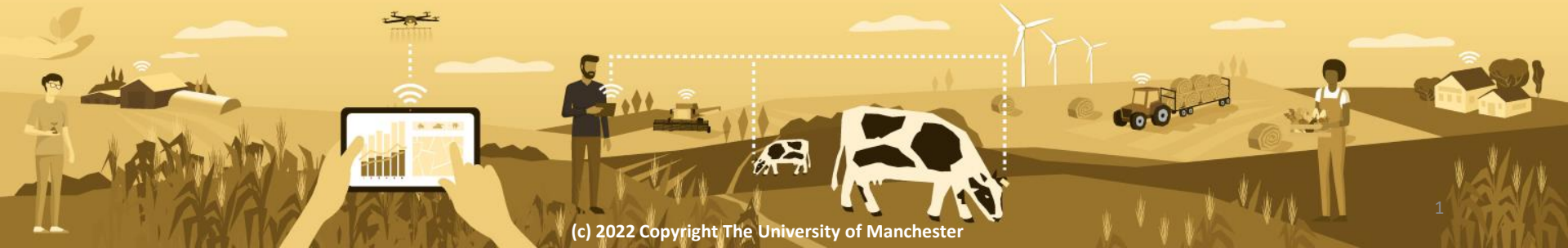




SESSION 1

Introduction to British farming





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Where does farming take place in the UK?

This is a **topographic map** of the UK.

The colours show the **elevation** of the land, which is the height above the level of the sea.

What do you notice from the map?



Which UK country has the most farmland?

Region	Farmland	Natural	Built on and green urban areas
England	$\frac{73}{100}$	$\frac{15}{100}$	$\frac{12}{100}$
Northern Ireland	$\frac{72}{100}$	$\frac{23}{100}$	$\frac{5}{100}$
Scotland	$\frac{26}{100}$	$\frac{71}{100}$	$\frac{3}{100}$
Wales	$\frac{59}{100}$	$\frac{35}{100}$	$\frac{6}{100}$

What else does the data tell you?



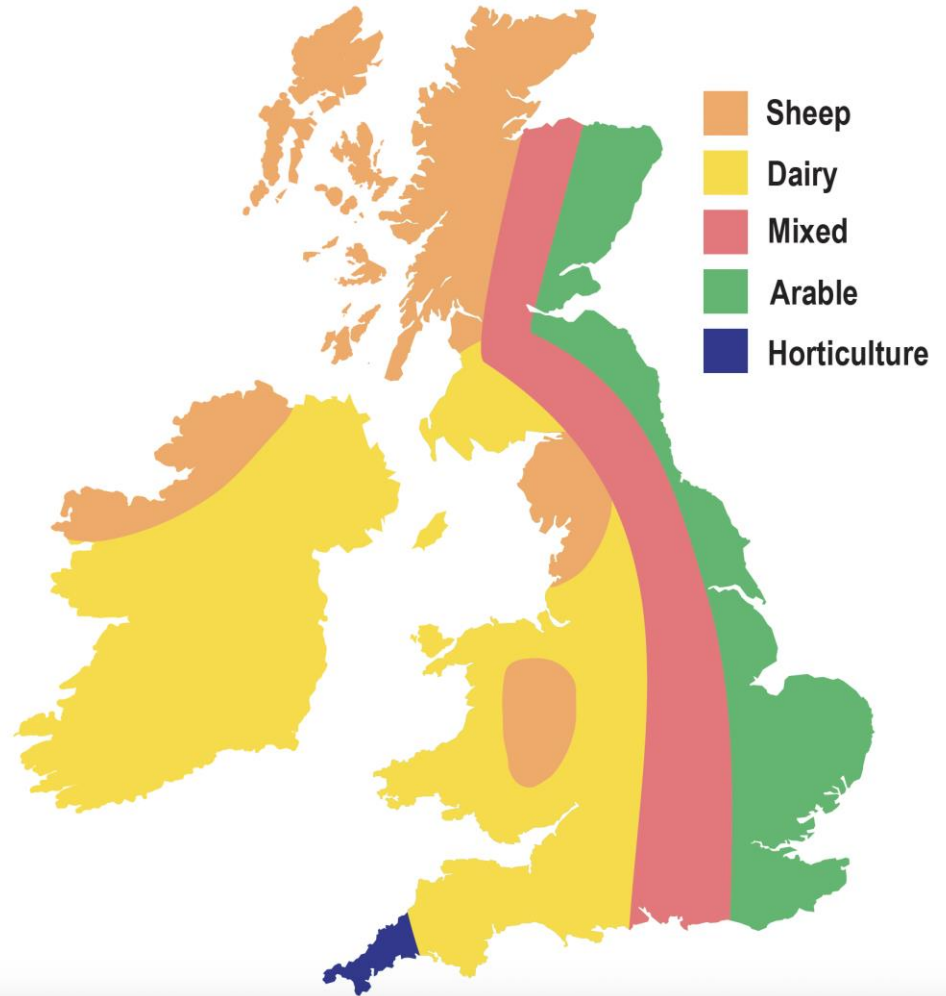


How are farms different?

This map shows what **type of farming** takes place in different areas of the UK.

What do you think happens on these types of farms?

What relationship is there between the type of farm and where it is?





Use your maths skills to compare and contrast data about farming in regions across the UK.

	Fraction of farmland area		
	Arable	Dairy	Other (horticulture/ livestock/pigs/ poultry)
United Kingdom	$\frac{49}{100}$	$\frac{9}{100}$	$\frac{42}{100}$
North West	$\frac{52}{100}$	$\frac{14}{100}$	$\frac{34}{100}$
West Midlands	$\frac{21}{100}$	$\frac{25}{100}$	$\frac{54}{100}$
South West	$\frac{41}{100}$	$\frac{39}{100}$	$\frac{20}{100}$
South East	$\frac{55}{100}$	$\frac{6}{100}$	$\frac{39}{100}$

Draw a bar chart to compare the percentage of land used for

- **arable**
- **dairy farms.**



What farming takes place near you?

From your bar chart – can you work out what farms might be near you.



Find out some more about farms near you...

Search box

A screenshot of a Google Maps search interface. The search bar at the top contains the text 'Farms near CV2 2DX'. Below the search bar, a list of farms is displayed, each with a star rating, the number of reviews, and a 'Directions' button. The map shows the area around Coventry, with various farms marked with red pins. The list includes:

- J Ismay**: 5.0 stars (1 review), Elm Fields Farm/Wigston Rd, Open now · 024 7661 2835
- Crowner fields farm**: 3.4 stars (19 reviews)
- Breachbrook Farm & Market Garden**: 3.0 stars (2 reviews), 58 Norman Pl Rd, 024 7633 3907
- Seven Acres**: 4.8 stars (5 reviews), 20 Stoneleigh Rd, 024 7669 3284
- Dewes E R B**: 4.3 stars (3 reviews), Lenton Lane Farm/Lentons La, 024 7661 2638
- Westmead Farm**: 5.0 stars (1 review)
- Birch Tree Farm**: 4.8 stars (4 reviews), Dairy farm · 17 Wall Hill Rd, 024 7633 8350
- Payne D & G**: 4.0 stars (5 reviews), Home Farm/Hinckley Rd

Make a tally of the different types of farms near you.

Visit <https://maps.google.com>

In the search box type: 'Farms near [insert school postcode]'.

NFU Video

Introduction to Arable Farming

ENGINEERING EDUCATES
CHALLENGES

What's arable farming?

SOIL DEFENDERS

Watch the video carefully.
Whenever you hear one of these keywords on the list tick it off.

arable <input type="checkbox"/>	water <input type="checkbox"/>	waterways <input type="checkbox"/>	roots <input type="checkbox"/>	waterlogged <input type="checkbox"/>	crop <input type="checkbox"/>
soil <input type="checkbox"/>	ecosystem <input type="checkbox"/>	artificial <input type="checkbox"/>	nutrients <input type="checkbox"/>	sowing <input type="checkbox"/>	weeding <input type="checkbox"/>
healthy <input type="checkbox"/>	organism <input type="checkbox"/>	carbon <input type="checkbox"/>	biodiversity <input type="checkbox"/>	fertiliser <input type="checkbox"/>	ploughing <input type="checkbox"/>
earthworms <input type="checkbox"/>	compaction <input type="checkbox"/>	irrigation <input type="checkbox"/>	greenhouse gas <input type="checkbox"/>	global warming <input type="checkbox"/>	climate change <input type="checkbox"/>
microbes <input type="checkbox"/>	drainage <input type="checkbox"/>	harvesting <input type="checkbox"/>	yield <input type="checkbox"/>	pests <input type="checkbox"/>	moisture <input type="checkbox"/>

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Listen carefully and tick off the keywords as you hear them.

Are there any words you don't understand?





Agri engineers work through the **Engineering Design Process** to solve real-world problems that farmers have.

They will move back and forth between the different steps as they develop solutions to problems in farming.

SOIL DEFENDERS

