



LEAF Education
Stoneleigh Park, Warwickshire, CV8 2LG



Contents

Introduction	Page 3
Sheep in the EYFS curriculum	Page 4
Sheep in the KS1:Y1 curriculum	Page 5
Sheep in the KS1:Y2 curriculum	Page 6
Sheep in the KS2:Y3 curriculum	Page 7
Sheep in the KS2:Y4 curriculum	Page 8
Sheep in the KS2:Y5 curriculum	Page 9
Sheep in the KS1:Y6 curriculum	Page 10
Further information and resources for teachers	Page 11
More sheep activities	Page 12
Appendix 1 Symptoms cards	Page 13
Appendix 2 Disease cards	Page 14
Appendix 3 Treatment cards	Page 15
Appendix 4 Sheep stratification students' copy	Pages 16-21
Appendix 5 Sheep stratification adult's copy	Pages 22-27
LEAF Education and RBST	Page 28

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Introduction

LEAF Education has worked with the Rare Breeds Survival Trust (RBST) to develop this e-booklet of ideas and activities for primary sage children with a focus on sheep. LEAF Education is a fan of collaborative working and on this project shares its expertise in education with RBST'S knowledge of animal husbandry.

Particular thanks go to LEAF Education's East of England Consultant Gaina Dunsire with support from Gail Sprake, RBST's Chair of Trustees and Secretary of the Southdown Sheep Association.

The booklet was originally devised for schools but parents and home educators can use the ideas with some preparation. Be prepared to learn alongside your children!



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Sheep in the EYFS curriculum

Year	Curriculum	Skills & Under-	Activity Ideas
Group		standing	
EYFS:	Anatomy	Name & identify	Use stuffed toys, or images of animals and birds – ask
Nursery &			the children to name and describe them, and the
Reception		Compare, sort &	differences in the basic anatomy between sheep
		group	and the other animals e.g. number of legs, wings,
			fur, teeth.
		Simple classifica-	Animal hangman.
		tion	Give a picture of an animal to one child – other
			children have 5 questions to guess what animal it is
		Verbally com-	e.g. how many legs does it have? How many
		municate find-	guesses does it take?
		ings	Make sheep on sticks (p9)or 3D models or use mime,
			stories, songs & card games to learn more about sheep
			& other animals' basic anatomy.



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Sheep in the KS1:Y1 curriculum

Year Group	Curriculum	Skills & Under- standing	Activity Ideas
KS1: Year 1	Food Chains	Simple classifica- tion	Discuss the body parts of a sheep – in particular its teeth and stomachs (simple diagrams are available online).
		Patterns & relationships	Watch what, and how, a sheep eats (real sheep or film clip). Mime it! Is it a <i>herbivore, carnivore or omnivore</i> ? Compare with other animals.
		Communicate & record findings	On their hands & knees mime how flocks of sheep eat (nibble the grass with their teeth) and then how herds of cows eat (pull the grass with their tongues) and lastly how dogs pant with excitement.
			Who eats what? Match the plant, animal and human food items with the animal e.g empty packaging for milk, eggs, sausages. Record on a table using images/text/drawings More Food Chain ideas on Countryside Classroom

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Sheep in the KS1:Y2 curriculum

Year	Curriculum	Skills & Under-	Activity Ideas
Group		standing	
KS1: Year	Life Cycles	Observing chang-	Sheep farming year pie chart
2	& Seasons	es over time Patterns & relationships	Discuss what time of year lambs are born and why - the life-cycle of sheep links with the seasons. Create a pie chart with drawings, collage, text, images etc.
		Communicate & record findings	Autumn: The male (Ram) is put with the female (Ewes) whilst they graze the grass. All the sheep are given medicine to stop them getting worms.
			Winter: The ewes eat grass but are also given hay (dried grass with seeds for protein) so they grow strong & healthy. The ewes are vaccinated to prevent disease. Some breeds are put in a barn in bad weather.
			Spring: The ewes give birth to lambs – usually 1 or 2. The lamb drinks its mother's milk which contains nutrients and anti-bodies against disease. Ewes are given worm medicine, lambs are given vaccinations.
			Summer: The ewes are sheared for their wool. The lambs eat grass and grow fast. Some will be sold for meat, some will be kept to breed more sheep. All the sheep are treated to prevent flies attacking their skin.
			More information about a sheep's year

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Sheep in the KS2 Y3 curriculum

Year	Curriculum	Skills & Under-	Activity Ideas
Group		standing	
KS2: Year 3	Habitats	Relationship be- tween living things & their environment Presenting find- ings	Use film clips about sheep and lambs. Discuss their (and our!) basic needs; food, water, shelter, health & safety. Show images of them in a farm/wild environment. Mini-fields & barns Help the children to create a habitat which includes a sheep's basic needs. This can be done outside, or using a cardboard box inside to recreate a barn. Children collect twigs, leaves etc for fences & shelter, dried grass for hay, small pots with water, moss for hedges etc. Wildlife Assessment What wildlife can children find in your garden or local park (following government guidance)?

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Sheep in the KS2 Y4 curriculum

Year Group	Curriculum	Skills & Under- standing	Activity Ideas
1			
KS2: Year	Use of Ma-	Textures	(This activity will be difficult unless you have access to a
4	terials		fleece.) Feel the texture of the fleece. Describe it - dry,
			wet, greasy, soft?
		Comparative fair	Student-designed experiments
		testing	For example:
			test the strength of wool in different forms - fleece,
		Appropriate en-	spun single thread, 3 threads, knitted etc using
		quiries	weights or other methods
		Secondary	test how waterproof fleece is unwashed or washed,
		Sources	or compared to other materials feathers, cotton, plastic etc
			test how insulating wool is compared to other ma-
			terials e.g. measure the temperature of water as it cools
			Investigate the different uses for wool and lanolin using
			secondary sources.
			Sheep shearing – how is it done & why? Video clip
			How much is wool worth (historically compared to
			now)?
			Sheep & wool craft activities

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Sheep in the KS2: Y5 curriculum

Year Group	Curriculum	Skills & Under- standing	Activity Ideas
KS2: Year 5	Health & Nutrition	Using evidence to justify & explain Communicate & Report findings Secondary Sources	Discuss what would you look for to check an animal is comfortable and healthy? Eyes, teeth, tongue, wool condition, feet, position, energy, appetite, noise, temperature. If possible, Children work with a partner. One is the farmer – who chooses a Symptoms card and reads it to their partner. Their partner, who is the Vet, looks at the Disease cards and decides what the sheep has, and tells the farmer about the disease. The farmer and the vet look at the Treatment cards together to decide what they have to do to look after their sheep and the rest of the flock. Children choose one of their diagnoses & treatments and writes up their findings in the style of a report for the farmer, more detail could be added using research from secondary sources. Feedback their findings as a role-play

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Sheep in the KS2:Y6 curriculum

Curriculum	Skills & Under- standing	Activity Ideas
Breeding		Discuss genes & genetics using humans then sheep as
& Genetics	use more com-	examples. Show how sheep have changed over time
	plex classification	and geography – e.g. compare sheep from Egypt to
		Shetland – why do they look so different?
	Using secondary	Sheep and the UK landscape – what is the role and
	sources	purpose of sheep farming? (meat, wool, soil fertility,
		land management, employment etc)
	Understand &	Stratification Task (See Appendices 4 and 5)
	predict	Study the key features of your sheep. Are you able to
		identify any breeds?! Are they a lowland, upland or
	Presenting data	hills breed?
		Investigate the <i>stratified breeding system</i> to
		understand how genetic differences are used by
		scientists and farmers to breed sheep which are suited
		to different topography & climate, and for different
		commercial purposes e.g. meat, wool or breeding.
		Children study the different sheep profiles and decide
		which breed is best suited for which part of the
		country.
	Breeding	Breeding Systematically use more complex classification Using secondary sources Understand &

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Further information & resources for teachers

Countryside Classroom

National Sheep Association

Rare Breed Survival Trust

British Wool

FACE/NFU – Why Farming Matters to the South Downs p.15-19

RSPCA

Twinkl

AHDB Beef & Lamb



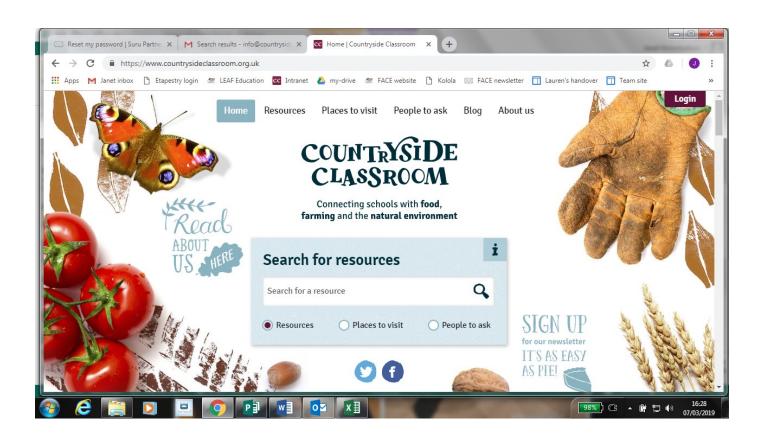
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More sheep activities

This booklet contains links to a variety of resources with a sheep theme. Most of these can be found on the Countryside Classroom website - just do a search for sheep in the resources section!

www.countrysideclassroom.org.uk



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Appendix 1 Symptoms cards

(Cut into individual cards and mix them up)

SYMPTOMS	SYMPTOMS	SYMPTOMS	SYMPTOMS
My sheep	My sheep	My sheep	My sheep
 Is eating less 	 Is limping on one of its back legs 		 Is eating less
Is stamping its feet	-	legs	Is making a lot of
 Is trying to scratch its back 	 Is smelly 	 Is eating less and drooling 	noise and stares at me
• Is smelly		 Has pus coming from its nose 	 Is coughing
Has maggots on its		 Is just lying around 	 Has a swollen neck
fleece			Has diarrhoea with
		 Has a weird col- oured tongue which 	blood in it
		is swollen	

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Appendix 2 Disease cards

Flystrike is caused by flies laying their eggs on a sheep's skin scan live in a sheep's hoof their feet and try to scratch where the maggots are They might not eat very much In bad cases you can see the maggots and smell the rotting skin Footrot Footrot is caused by two bacteria which live in the soil and sheep manure, but can live in a sheep's hoof the wind from Europe to touching them in, or touching them the wind from Europe to touching them the wind from Europe to touching them Sheep with footrot will limp on one or more of their feet They might not eat very much In bad cases you can see the maggots and smell the rotting skin Footrot has a bad smell Sheep with footrot will limp on one or more of their feet They will have a swollen mouth, head or neck and pus coming from its eyes and nose It might be lame in its back Blue tongue Blue tongue is a virus which is spread by midges which are sometimes blown by breathing them in, or touching them It will tough, eat less and have stomach ache They will have a swollen mouth, head or neck and pus coming from its eyes and nose They have blood in their nostrils or dung	DISEASE	DISEASE	DISEASE	DISEASE
laying their eggs on a sheep's skin soil and sheep manure, but can make sheep stamp their feet and try to scratch where the maggots are They might not eat very much In bad cases you can see the maggots and smell the rotting skin bacteria which live in the soil and sheep manure, but are sometimes blown by the wind from Europe to touching them They will have a high temperature and shiver They will law a swollen mouth, head or neck and pus coming from its eyes and nose They have blood in their nostrils or dung	Flystrike	Footrot	Blue tongue	Anthrax
legs	laying their eggs on a sheep's skin It can make sheep stamp their feet and try to scratch where the maggots are They might not eat very much In bad cases you can see the maggots and smell the	bacteria which live in the soil and sheep manure, but can live in a sheep's hoof Footrot has a bad smell Sheep with footrot will limp on one or more of their	is spread by midges which are sometimes blown by the wind from Europe to the UK Sheep with the virus will have a high temperature and drool They will have a swollen mouth, head or neck and pus coming from its eyes and nose It might be lame in its back	bacteria and spread by breathing them in, or touching them Sheep will have a high temperature and shiver They will cough, eat less and have stomach ache Their eyes go bright and staring They have blood in their

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Appendix 3 Treatment cards

TREATMENT	TREATMENT	TREATMENT	TREATMENT
 Take the sheep away from the rest of the flock Remove and kill the maggots Shave the area Apply a chemical "insecticide" to kill the eggs 	 Take the sheep away from the rest of the flock—it is very contagious! Trim the infected hoof Soak the foot in an anti-bacterial wash Think about vaccinating 	 Take temperature and look in its mouth for ulcers This disease must be reported immediately to Defra (the government) Keep it away from other sheep The is no cure so it might die Think about vaccinating the rest of the flock 	 Do not move it and keep other sheep away Take its temperature but wear gloves Clean the area with disinfectant The disease must be reported immediately to Defra (the government) Keep other sheep away

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Appendix 4 Sheep stratification Students' copy

(Cut into individual cards and mix them up)

Herdwick



Britain's hardest breed
Strong and agile (moves quickly and easily)
Very waterproof fleece
Good mothers
Slow growing
Can live off just grass

Rams weigh up to 90kg Ewes weigh up to 60kg

Swalesdale



Strong feet and teeth
Small sheep
Can cope with wild areas and very
harsh weather
Strong and brave
Good for both meat and wool

Rams weigh up to 73kg Ewes weigh up to 54kg

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Student Cards

Whitefaced Dartmoor



Hardy sheep – they can live on land up to 600m high Can live off just grass Excellent mothers Curly fleece

Rams weigh up to 75kg Ewes weigh up to 54kg

Derbyshire Gritstone



Big and strong Agile (moves quickly and easily) Very waterproof and good quality fleece Good mothers

Rams weigh up to 110kg Ewes weigh up to 74kg

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Student Cards

Bluefaced Leicester



Produces lots of lambs
Fast growing
Can live on land up 300-500m
Good for crossing with hill breeds

Rams weigh up to 150kg Ewes weigh up to 86kg

Clun Forest



Very alert, good mothers
Can adapt to different environments
Need little extra food as they are good
foragers
Live a long time

Rams weigh up to 90kg Ewes weigh up to 65kg

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Student Cards

Kerry Hill



Hardy breed – can live on land up to 500m high Thick fleece Adaptable to different environments Good mothers

> Rams weigh up to 80kg Ewes weigh up to 65kg

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Student Cards

Suffolk



Big and fast growing Good quality meat Not hardy but has hard hooves Ewes give birth easily and produce lots of milk

> Rams weigh up to 150kg Ewes weigh up to 90kg

Romney



Likes grassland, can live on marshy land Water resistant fleece Thick, heavy wool Generally healthy but slower growing Good quality meat

> Rams weigh up to 77kg Ewes weigh up to 64kg

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Student Cards

Lincoln Longwool



Big sheep Very long, thick wool Suited to cold but dry climates Gentle character

> Rams weigh up to 114kg Ewes weigh up to 91kg

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Appendix 5 Sheep stratification Adult's's copy

Hill Farm Sheep (above 500m)

1.Herdwick



Britain's hardest breed
Strong and agile (moves quickly and easily)
Very waterproof fleece
Good mothers

Slow growing Can live off just grass

> Rams weigh up to 90kg Ewes weigh up to 60kg

2.Swalesdale



Strong feet and teeth
Small sheep
Can cope with wild areas and very
harsh weather
Strong and brave
Good for both meat and wool

Rams weigh up to 73kg Ewes weigh up to 54kg

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Hill Farm Sheep (above 500m)

3. Whitefaced Dartmoor



Hardy sheep – they can live on land up to 600m high Can live off just grass Excellent mothers Curly fleece

> Rams weigh up to 75kg Ewes weigh up to 54kg

4. Derbyshire Gritstone



Big and strong
Agile (moves quickly and easily)
Very waterproof and good quality fleece
Good mothers

Rams weigh up to 110kg Ewes weigh up to 74kg

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Upland Sheep (300-500m)

5. Bluefaced Leicester



Produces lots of lambs
Fast growing
Can live on land up 300-500m
Good for crossing with hill breeds

Rams weigh up to 150kg Ewes weigh up to 86kg

6. Clun Forest



Very alert, good mothers
Can adapt to different environments
Need little extra food as they are good
foragers
Live a long time

Rams weigh up to 90kg Ewes weigh up to 65kg





Upland Sheep (300-500m)

7. Kerry Hill



Hardy breed – can live on land up to 500m high Thick fleece Adaptable to different environments Good mothers

> Rams weigh up to 80kg Ewes weigh up to 65kg





Lowland Sheep (below 300m)

8. Suffolk



Big and fast growing Good quality meat Not hardy but has hard hooves Ewes give birth easily and produce lots of milk

> Rams weigh up to 150kg Ewes weigh up to 90kg

9. Romney



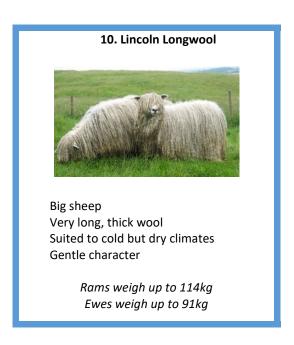
Likes grassland, can live on marshy land
Water resistant fleece
Thick, heavy wool
Generally healthy but slower growing
Good quality meat

Rams weigh up to 77kg Ewes weigh up to 64kg





Lowland Sheep (below 300m)







LEAF Education and RBST

LEAF Education (formerly Farming and Countryside Education) works with school communities to help children and young adults understand the connection between farming and their daily lives.

Linking Environment and Farming (charity number 1045781).

Rare Breeds Survival Trust

RBST is the only UK charity dedicated to securing the future of our rare and native breeds of farm live-stock. RBST saves genetics in its Gene Bank. If a breed were to become extinct, this can be used to revive a breed. In emergencies, RBST will buy genetically important stock and place it in approved breeding centres. RBST promotes rare and native farm breeds and provides a network of knowledge to support and encourage breeders.

Contact LEAF Education

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