

TEACHER NOTES

Cross-Curricular Project

Geography, English, Maths & Art



Education
Destination

TAPNELL
FARM PARK

Contextual Summary

This is an on-site resource with post-visit activities.

The resource is started on-site with three or four group activities lasting about 30 minutes each.

Back at school, the project covers a range of subject areas including English, maths, art and geography.

Activities are designed to appeal to students of all abilities in upper and lower key stage 2 (years 3-6).

Task Implementation

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adult.

The project may be continued in the classroom post-visit. There are some suggested activities provided within this document for follow up work.

Ability Levels

This resource is suitable for key stage 2 students of mixed ability.

There are higher and low ability work sheets provided for the on-site tasks.

It is possible for the KS2L worksheets to be used for lower ability pupils in years 5 and 6.

Key skills practised in this unit:

- ▶ Application of various learnt skills in a new context
- ▶ Reading for information
- ▶ Data handling
- ▶ Higher order thinking skills.

Relationship to Curriculum

These skills are required to be taught and practised as per the National Curriculum / Curriculum for Excellence, for key stage 2 geography, maths, art and English.

SUBJECT

Cross-curricular

UNIT

Various

OPPORTUNITIES FOR USE

- ✗ Pre-Visit
- ✓ On-Site Activity
- ✓ Post-Visit



Peripheral Task



P4-P7

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resource numbered:

1	5	2	0	3	1
1	5	2	0	3	2
1	5	2	0	3	3
1	5	2	0	3	4

Learning Opportunities

Pre-Visit

- ▶ It would be useful to cover some of the skills and concepts before the visit, but not essential. Namely:
 1. The difference between wild and domestic animals
 2. How to record data on a histogram or bar chart
 3. Finding mean average and median (upper key stage 2).

During the Visit

- ▶ Students complete the activities in the resources linked to this document: *Cross-Curricular Project!*

Resource ID: **152031** (KS2L lower ability) **152032** (KS2L higher ability)

152033 (KS2U lower ability) **152034** (KS2U higher ability)

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▶ Students can complete the primary school project as a group or see appeal to this

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- ▶ Students should learn how to develop a range of subject areas.

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- ▶ Any appropriate ideas from the students themselves should be followed up.

Enrichment Opportunities

- ▶ There are opportunities for discussion about keeping animals in captivity, for forming opinions, and for the use of ICT.

Learning Outcomes

- ✓ Students will have demonstrated a range of skills involved in producing an extended cross-curricular study.
- ✓ The project will reinforce skills learnt in a range of subject areas. New knowledge will be encountered on a 'want/need to know' basis which will add to the building of background knowledge which, in turn, will impact on subsequent learning.

For further details visit educationdestination.co.uk

- ▶ Hundreds more resources
- ▶ Search by age, subject, exam board
- ▶ Virtual venue tours and maps
- ▶ Bespoke online itinerary builder
- ▶ Risk assessments
- ▶ Travel and accommodation



Appendix 1: Post visit activity suggestions

Literacy Ideas

Fact Wall

- Produce a fact wall using information from scavenger hunt and any other facts gleaned from the visit.

Letter writing

- Write a thank you letter to the park telling them the bits you enjoyed the most and why.

Maths ideas

Bar charts

- Draw up the bar charts in best for display
- Find out mode, median, mean and range



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Geography

- The park plan activity could be followed up and drawn out in best or ICT could be used.
- Maps and plans of other parks could be researched on the internet for design ideas.

Art and Design

- Using a cow template, pupils create a design which reflects their visit. The designs should be colourful and pupils should consider the background colour for the cow.
- Copies of the designs could be sent to Tapnell for display.



Appendix 2: Answers to worksheets

152031

- Lower KS2 lower ability



Page 1

Meerkat ... **S Africa**
 Sheep ... **Europe & Asia**
 Goat ... **SE Asia & E Europe**
 Pig ... **Europe**
 Wallaby ... **Australasia**
 Chicken ... **Asia**

Page 3

Life spans:
 wallaby **9-10yrs**
 goat **15-18yrs**
 pig **6-10 yrs**
 sheep **10-12 yrs**
 chicken **8-15 yrs**
 meerkat **10-12yrs**

Page 4

Meerkats – come from **Southern Africa**

Wallabies – from **Australia**

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Speed a pig can run – **11mph**

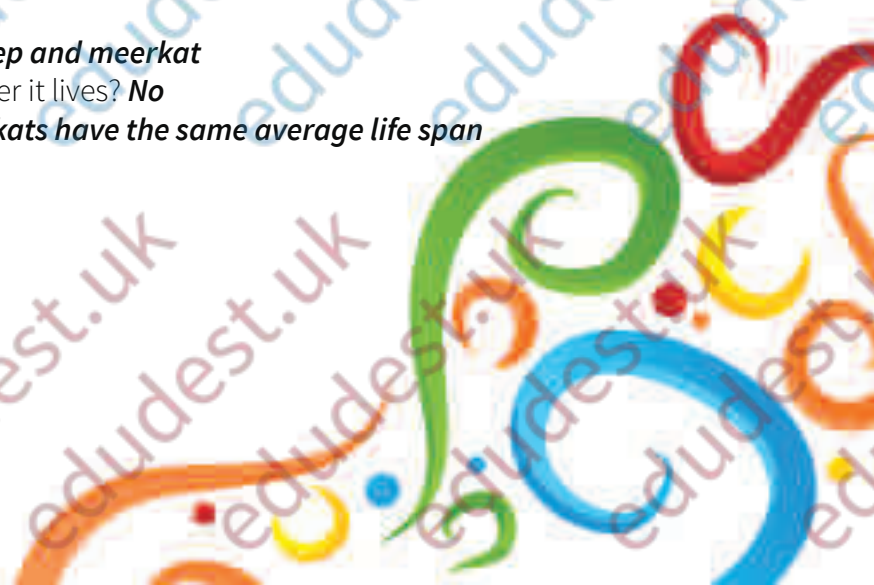
Page 5

	Rabbit	Rat	Miniature Donkey	Goat	Sheep	Meerkat	Wallaby
Average life span in years	7-10 yrs	4-6 yrs	20-35yrs	15-18yrs	10-12 yrs	10-12yrs	9-10 yrs

- Which animal lives the longest? **Miniature Donkey**
- Which animal has the shortest lifespan? **Rat**
- Write down the animals in **order of life span** starting with the shortest:

rat rabbit wallaby meerkat & sheep goat miniature donkey

- Which 2 animals have the same life span? **sheep and meerkat**
- Is it true that the bigger the animal is, the longer it lives? **No**
 Why do you think this? **Sheep and meerkats have the same average life span**



Appendix 2: Answers to worksheets

152032

- Lower KS2 higher ability



Page 1

- meerkat
- pig (sheep)
- ◆ wallaby
- ★ chicken (goat)

Page 4

2. Why are there sinks and taps outside animal enclosures? **To wash your hands**
3. Where do meerkats come from? **Southern Africa**
4. How fast can an adult pig run? **Up to 11mph**
5. Wallabies are macropods. What does macropod mean? **Large footed**
6. What is a group of Wallabies called? **A mob**
7. How many different breeds of sheep are there in the world? **900**
8. What age can a chicken live to? **15yrs**
9. Which animal in the park lives the longest? **Miniature Donkey lives up to 35years**

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	Chicken	www.edudest.uk		Meerkat	Pigmy Goat
Average height in centimetres	10-20cm	84-92cm	90cm	30cm	40cm
Average life span in years	8-15 yrs	6-10yrs	10-12yrs	10-12yrs	15-18yrs

1. Which is the tallest animal? **pig**
2. Which is the shortest animal? **chicken**
3. Write down the animals in order of size starting with the smallest

chicken meerkat goat sheep pig

4. Which 2 animals have the same life span? **sheep and meerkat**
5. Which animal lives the longest? **Pigmy goat**
6. What is the difference between the smallest and the greatest height? **92 - 10 = 82cm**
7. What is the difference between the longest and the shortest life span? **18 - 8 = 10years**



Appendix 2: Answers to worksheets

152033

- Upper KS2 lower ability



Page 1

- meerkat
- pig (sheep)
- ◆ wallaby
- ★ chicken (goat)

Page 3

Where do meerkats come from? **Southern Africa**
What is the average height of a meerkat? **30cm**
How fast can a pig run? **11mph**
Where do wallabies come from? **Australia**
What is the height of a sheep? **90cm**
Where do chickens come from? **Asia**
How high is a pigmy goat? **40cm**
Which answer is left? **30mph**

Pages 4 & 5

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Average life span in years	8-15 yrs	6-10yrs	10-12yrs	10-12yrs	15-18yrs
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- Which is the tallest animal? **pig**
- Which is the shortest animal? **chicken**
- Write down the animals in order of size starting with the smallest

chicken meerkat goat sheep

- What is the smallest height? **10cm**
- What is the greatest height? **92cm**
- What is the difference between the smallest and the greatest height? **92 - 10 = 82cm**
- What is the difference between the longest and the shortest life span? **18 - 8 = 10 years**
- Is it true that the bigger the animal is, the longer it lives? **No**
Why do you think this? **Sheep and meerkats have the same average life span**



Appendix 2: Answers to worksheets

152034

- Upper KS2 higher ability



Page 1

- meerkat
- pig
- ◆ wallaby
- ★ chicken
- ▲ sheep
- ▲ goat

Page 3

3 things you must not do because it could harm the animals:

1. **Do not shout**
2. **Do not kiss animals**
3. **Do not feed the animals**

3 rules that are there to protect you:

1. **Do not climb fences**
2. **Do not put fingers in animals' mouths**
3. **Wash hands**

1. Where do meerkats come from? **Southern Africa**
2. Which animals are macropods. What does macropod mean? **Large footed**
3. What is a group of Wallabies called? **A mob**
4. Since when have wallabies been found wild in England? **Since the 1930s**

5. Which animal has a particularly long memory? **Sheep**

6. How many different kinds of sheep are there in the world? **900**

7. How many more pigs than sheep are there in the world? **1 billion (1bn) sheep, 2bn**

pigs)

10. What is the link between a chicken and a giraffe? **Chicken has more neck bones than a giraffe**

Bonus question. Which animal probably has the best eyesight? **Meerkat (over 300m)**

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Page 5

	Chicken	Pig	Sheep	Meerkat	Pigmy Goat	Miniature Donkey	Pot bellied Pig
Average height in centimetres	10-30cm	84-92cm	90cm	30cm	40cm	90cm	40 - 65 cm
Average life span in years	8-15 yrs	6-10yrs	10-12yrs	10-12yrs	15-18yrs	20 - 35 yrs	12-15 yrs

1. Which is the tallest animal? **pig**
2. Which is the shortest animal? **chicken**
3. Write down the animals in order of size starting with the smallest

chicken meerkat goat Pot bellied pig sheep miniature donkey pig

4. What is the difference between the smallest and the greatest height? **92-10= 82cm**
5. What is the difference between the longest and the shortest life span? **35-8 =27 years**
6. What is the mean average age for a chicken? **12 years**
7. Work out the median height. Use the average height of each animal to work this out. **47 cm Pot bellied pig**

Page 6

9. a) How do you account for the huge difference in data for the chicken?
There are many different species.
- b) Investigate if there is any link between the size of an animal and its average life span. Write your findings with your evidence. **There is no precise link as seen in meerkats and sheep for example, which are very different in size but have the same average life span.**