

TEACHER NOTES

Mathematics

Handling Data: Investigating & Calculating Costs

Contextual Summary

This is a maths resource that engages students with their visit to the Isle of Wight Donkey Sanctuary. The resource task enables them to practise their data handling skills.

Students are asked to investigate the costs of keeping a donkey, using their knowledge of costings gained at the Donkey Sanctuary as their base material. The task is designed to appeal to students in upper key stage 2.

This resource links to the Donkey Sanctuary's English persuasive leaflet task allowing for effective cross-curricular opportunities.

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that students are aware of the need to collect data on the costings information they may see or hear about during their visit.

The tasks can be integrated into lessons at any stage throughout the academic year as a revision tool or for data handling practice. It is anticipated that students will have an enriched experience as they will be reflecting on their school visit activities in a creative way, and this will reinforce how the effective handling of data can provide solutions to problems.

Ability Levels

There are four variants of this resource, one each for low, mid and high ability levels in upper key stage 2, plus an extra version for very low ability students. Teachers can support students in their undertaking of the tasks as necessary for ability.

Key skills practised in this unit:

- ▶ Advanced Statistics & Data Mining (ASDM)
- ▶ Data handling
- ▶ Identifying appropriate operations to solve a problem
- ▶ Percentages.

Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum for upper key stage 2 Mathematics.



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SUBJECT

Mathematics

UNIT

Handling Data

OPPORTUNITIES FOR USE

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

Peripheral Task

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resources numbered:

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

Learning Opportunities

Pre-Visit

- ▶ Students could consider running costs such as their own expenditure weekly, monthly and then calculate annually and daily.
- ▶ The task should be discussed in class prior to the trip so students are bearing this in mind when on their visit, focusing on obtaining the relevant information during their visit to the Donkey Sanctuary.
- ▶ It would be useful if the students have already revised some features of collecting and using data.

During the Visit / Post-Visit

- ▶ Collection of data as appropriate to the task.
- ▶ Completion of the Maths resource linked with this document:

Resource ID: **104141A** (KS2U low-mid ability) **B** (KS2U low ability)

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Enrichment Opportunities

- ▶ Students will learn to collect relevant data and use it to provide an answer to a problem.
- ▶ This task would work well with the English persuasive leaflet task for a cross curricular approach.
- ▶ There is an opportunity for use of ICT in recording/presenting the data.

Learning Outcomes

- ✓ Students will demonstrate their data handling skills.
- ✓ They will show evidence of data collection, recording and the subsequent use of this data to provide solutions.

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TEACHER INFORMATION

COSTS OF OWNING A DONKEY



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