

TEACHER NOTES

Mathematics

Handling Data / Statistics

Contextual Summary

This is a maths resource that engages students with their ferry crossing on Red Funnel ferries.

The resource task enables them to practise their data handling skills.

Pupils are asked to read and handle data about the Red Funnel ferries.

The task is designed to appeal to students in lower key stage 2.

Task Implementation

This resource can be completed in the classroom pre-visit or post-visit. See lesson plan for more information.

The tasks can be integrated into lessons at any stage throughout the academic year as a customised data handling practice.

It is anticipated that students will have an opportunity to reflect 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

This resource is suitable for lower key stage 2 students. There are two versions: one each for low and high ability.

Teachers can support as necessary.

Key skills practised in this unit:

- ▶ Investigating and comparing statistics
- ▶ Asking and answering various mathematical questions
- ▶ Using appropriate language to make comparisons
- ▶ Identifying appropriate calculation strategies to solve problems
- ▶ Handling larger numbers over 4 digits
- ▶ Writing numbers showing correct place value.

Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum / Curriculum for Excellence, for key stage 2 mathematics: order and compare numbers up to and beyond 1000; solve number problems with increasingly large numbers.



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RED FUNNEL

SUBJECT

Mathematics

UNIT

Handling Data / Statistics

OPPORTUNITIES FOR USE

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

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resource numbered:

107321
107322

Learning Opportunities

Pre/Post Visit

- ▶ The tasks are presented in such a way that they can be simplified or made more complex depending on the ability of the pupils.
- ▶ The intention is that the tasks are worked on in mixed ability groups offering opportunity for discussion about processes, operations, strategies and evaluations.

Resource ID: **107321** (KS2L low-mid ability)

107322 (KS2L mid-high ability)

- ▶ Students will learn to read and use data using the Red Funnel ferries as their resource material. The relevant information is provided, but further data can be obtained from the Red Funnel website.

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- ▶ They will use the data to provide answers to given problems, and they will be encouraged to pose their own questions.

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Enrichment Opportunities

- ▶ There is an opportunity for developing fluency in using mathematical language, especially in making comparisons.
- ▶ The pupils are also given time to create their own presentation of the data collected and calculated.

Learning Outcomes

- ✓ Students will demonstrate their data handling skills leading to a fluency demanded in the programs of study.
- ✓ They will show evidence of data collection, various recording methods, comparisons and the subsequent use of this data to provide solutions.

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TEACHER ANSWERS

Which is the newest ferry?

Red Eagle

What is the difference between the age of Red Eagle and Red Falcon ?

2 years

How old is Red Osprey?

20 years old in 2014

Which ferry has had the most recent refit?

Red Falcon (2015)

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Which ferry do you think will be next to have a refit?

Red Eagle

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How many passengers does Red Jet 3 carry?

190

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Which passenger ferry carries the most passengers?

Red Jet 4

How many fewer passengers does Red Jet 5 carry?

88 (275-187)

Write down the Ferries in order, oldest first.

R Falcon & R Osprey, R Eagle, RJ3, RJ4, RJ5



10732

