

# TEACHER NOTES

## Mathematics

### Handling Data / Statistics (with Functional Skills)

#### Contextual Summary

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

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

Students are asked to investigate the arrangements for a trip to the Isle of Wight using the Red Funnel website for their source material.

The task is designed to appeal to students in key stage 3 and lower ability KS4.



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RED FUNNEL

#### SUBJECT

Mathematics

#### UNIT

Handling Data (Functional Skills)

#### OPPORTUNITIES FOR USE

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

Peripheral Task

## Teaching resources by Education Destination Ltd.

Curriculum relevant materials supporting school trips to the Isle of Wight

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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

This resource is suitable for key stage 3 students of all abilities and for key stage 4 students of lower ability studying Functional Skills.

There are three versions: one for low ability key stage 4 and one each for low and high ability students in key stage 3.

#### Key skills practised in this unit:

- ▶ Reading timetables
- ▶ Investigating and comparing prices
- ▶ Identifying appropriate calculation strategies to solve a complex problem.

#### Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum / Curriculum for Excellence, for key stage 3/4 mathematics: handling data with fluency.



S1-S4

#### CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resource numbered:

1	0	7	3	4	1
1	0	7	3	4	2
1	0	7	3	4	3

## 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. This may not be appropriate in the lowest ability groups.

Resource ID: **107341** (KS3 low-mid ability)

**107342** (KS3 mid-high ability)

**107343** (KS4 low ability Functional Skills)

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## Enrichment Opportunities

- ▶ There is an opportunity for developing fluency in using ICT to collect and record data.

## 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, recording, comparisons and the subsequent use of this data to provide solutions.

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