

TEACHER NOTES

Mathematics

Working Mathematically - Practising Maths Skills

Contextual Summary

This is a maths resource that engages students with their visit to the Dinosaur Expeditions Centre. The on-site resource task enables them to practise their measuring and number skills giving opportunities to demonstrate estimation, measurement, comparisons and conversions of numerical data and the solving of simple problems.

Students are asked to complete a number of practical activities during their visit with options for follow up work back at school.

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



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Destination



DINOSAUR
EXPEDITIONS

SUBJECT

Mathematics

UNIT

Practising Maths Skills

OPPORTUNITIES FOR USE

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

Periphrasal Task

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Curriculum relevant materials supporting school trips to the Isle of Wight

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It would be useful for teachers to bring squared paper.

It is anticipated that students will have an enriched experience as they will be using their school visit as a learning environment, and this will reinforce how the effective discovery and handling of data can provide solutions to problems.

Ability Levels

This resource is suitable for upper and lower key stage 2 students of all abilities.

There are different worksheets for lower and upper key stage 2 and differentiated tasks for high and low ability for each age range.

Key skills practised in this unit:

- ▶ Measuring distance and area in metres and centimetres
- ▶ Comparison and conversion of numerical data
- ▶ Scale (Upper KS2)
- ▶ Manipulation of numbers within the decimal system (including millions for upper KS2)
- ▶ Identifying appropriate operations to solve a 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 2 mathematics.



P4-P7

CURRICULUM / SYLLABUS

- ✓ National Curriculum
- ✓ Curriculum for Excellence

Applies to Resource/s numbered:

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

Learning Opportunities

Pre-Visit

- ▶ Before the visit, pupils could revise measurements in metres and centimetres.
- ▶ Some understanding of scale would be a useful addition.

During the Visit

- ▶ Students to complete tasks within the Mathematics resource linked to this document: *Dinosaur Maths Challenge!*

Resource ID: **114011** (KS2L lower ability) **114012** (KS2L higher ability)

114013 (KS2U lower ability) **114014** (KS2U higher ability)

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▶ The task Curriculum relevant materials supporting school trips to the Isle of Wight
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Enrichment Opportunities

- ▶ Various graphic representations of the data could be recorded in the classroom for display, post-visit.

Learning Outcomes

- ✓ Students will demonstrate their skills in estimation, measurement, comparisons and conversions of numerical data, understanding of scale and the solving of simple problems.

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