TEACHER NOTES

Statistics/Handling Data

Dinosaur Data!

Education Destination

DINOSAUR ISLE

Contextual Summary

This is a curriculum-based mathematics resource that enables students to practise their tally skills, understanding frequency and presenting their collated statistical data through the use of graphs, including pictograms, bar graphs and pie charts. The skills required to undertake the task are core to curriculum areas within mathematics. All link to the 2014 National Curriculum and, in Scotland, Curriculum for Excellence. The resource is aimed at all years within key stages 2 and 3.

The resource links to dinosaurs found on the Isle of Wight specifically, ensuring relevance on the visit for students whilst ensuring the wider curricular relevance is maintained.

Questions have been chosen because they link directly with the key curriculum areas.

Task Implementation

This resource can be used on-site at the end of the visit or could also be used when back in the classroom, as a post-visit activity.

This is a peripheral task that links to the key areas of interest within the Dinosaur Isle museum, most notably the dinosaur types found on the Isle of Wight.

However, the skills that can be practised by undertaking the task are directly relevant to the curriculum expectations for key stages 2 and 3.

Ability Levels

There are 3 versions of this resource, one resource for mixed ability in each of these key stages: lower key stage 2 (years 3-4), upper key stage 2 (years 5-6), and key stage 3 (years 7-9).

These could be adapted further by teachers if required, i.e. for SEN. For example, students could perhaps complete fewer questions, use the resource aimed at higher or lower year groups, or work in teams to find the answers.
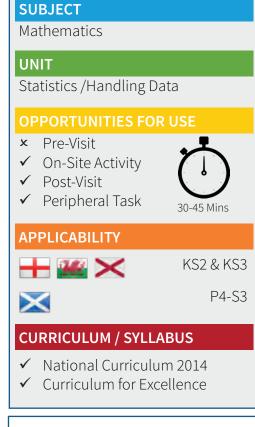
Key skills practised in this unit:

► Practising tallying skills
► Collating and presenting statistical data
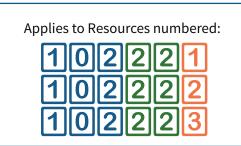► Drawing conclusions from their results

Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum, for mathematics key stages 2 and 3.

SUBJECT
Mathematics

UNIT
Statistics /Handling Data

OPPORTUNITIES FOR USE
- ✗ Pre-Visit
- ✓ On-Site Activity
- ✓ Post-Visit
- ✓ Peripheral Task

30-45 Mins

APPLICABILITY

🏴󠁧󠁢󠁥󠁮󠁧󠁿 🏴󠁧󠁢󠁷󠁬󠁳󠁿 ❌   KS2 & KS3

🏴󠁧󠁢󠁳󠁣󠁴󠁿   P4-S3

CURRICULUM / SYLLABUS
- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resources numbered:

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

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1 0 2 2 2

Learning Opportunities

Pre-Visit

Preparation for the visit, work on the skills for this resource: tallying, recording data, frequency, use of pictograms, pie charts and bar charts, etc.

During the Visit

Completion of the resource linked to this document: *Dino Data Challenge!*

Resource ID: 1 0 2 2 2 1 (KS2L), 1 0 2 2 2 2 (KS2U), 1 0 2 2 2 3 (KS3)

or Post Visit

Completion of the resource linked to this document: *Dino Data Challenge!*

Resource ID: 1 0 2 2 2 1 (KS2L), 1 0 2 2 2 2 (KS2U), 1 0 2 2 2 3 (KS3)

Enrichment Opportunities

Students will enhance their understanding of the key processes involved in these data calculations by using a real-life situation, following the visit to Dinosaur Isle museum. By tallying their peers' responses, they are able to make observations and deductions as well as presenting these responses as statistical data in a variety of table formats (depending on key stage).

Learning Outcomes

Students will be able to demonstrate their ability to understand the process of obtaining information then transforming it into statistical data before presenting it in an appropriate graph or chart. They will show understanding of potential reasons for their results. They will have practised tallying skills, collation and presentation skills, and will demonstrate accuracy in drawing conclusions from their results.

For further details visit **www.edudest.uk** and click:

▶ *Resource Finder* - to locate specific resources identified above
▶ *Venue Finder* - to learn more about education at this venue
▶ *Subject Finder* - to find other relevant Isle of Wight venues