

PARENT NOTES

Statistics/Handling Data

Dinosaur Data!



At A Glance:

- ✓ Mathematics - Key Stages 2-3
- ✓ National Curriculum 2014
- ✓ Promotes understanding of processes
- ✓ Practises skills relating to statistical data
- ✓ On-site or post-visit activity

What's Involved?

This resource enables students to record the responses of fellow classmates with regard to dinosaurs at Dinosaur Isle museum, and to use tallies, charts and graphs to present their statistical data.

They will be using mathematical skills including collation and presentation of statistical data, as well as comparing and drawing conclusions from results.



“Statistics is the grammar of science”

- Karl Pearson

About this activity

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.

Questions & Answers

What is the task?

- ▶ This is a museum-linked task that enables students to practise the processes of tallying responses, collating statistical data, and presenting the data in several ways as appropriate.
- ▶ The task can either be undertaken immediately after their visit, on-site, or back in the classroom environment.

How does this link to my child's learning?

- ▶ Questions have been chosen because they link directly with the key skills required for mathematics in key stages 2 or 3.

What will they learn?

- ▶ Students will be able to demonstrate their ability to understand the process of collating and presenting statistics in the most effective way.
- ▶ They will show understanding of how data can highlight differences in viewpoint (in this case with regard to the 'best' dinosaur).

How does this enrich study undertaken in school?

- ▶ Students will enhance their understanding of the key processes involved in this calculation by using the actual responses of students to the dinosaurs on display in the museum.

What do they need to have done in preparation?

- ▶ It is suggested to teachers that they will need to prepare students for this task by ensuring that they know how to tally data and present statistics in an appropriate format for the task.
- ▶ Students could research the types of dinosaur found on the Isle of Wight so they can build up an even better picture of the characteristics or features in advance of their visit; this could help them make a more educated choice about their favourite!

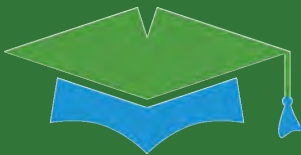
What skills do they need to demonstrate?

- ▶ Practising tallying skills
- ▶ Collating and presenting statistical data
- ▶ Drawing conclusions from their results.

Helpful Resources

Encourage your child to research Dinosaur Isle and the dinosaurs **before** their visit

This activity was compiled by **Education Destination** in conjunction with Dinosaur Isle. We help students of all ages and abilities to experience excellent curriculum based learning opportunities at many Island venues and attractions.



eddest.info

Dinosaur Isle will engage, inspire and excite visitors of all ages. This highly regarded museum is visited regularly by school and universities and offers exceptional learning opportunities across the curriculum



www.dinosaurisle.com

For further reading about Dinosaur Isle and dinosaurs, **wikipedia** offers excellent articles, including onward links to a range of related content. This would serve as an ideal introduction for learners prior to their visit, and is suitable for ages 7 upwards.



wikipedia.org

What follow-up tasks are there?

- ▶ There are opportunities for further work on data and information relating to dinosaurs, perhaps researching more data relating to extinction or years of existence, plotted into various charts or timelines.

Is there any scope for future learning at Dinosaur Isle?

Yes. There are many other subjects and tasks developed for later key stages and for subsequent visits. There is much to be learned here!



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