

TEACHER NOTES

Science

Biology - Evolution



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Contextual Summary

This resource links to the National Curriculum for Science, (*fossils providing information about living things; how animals adapt to suit their environment*). This pre-visit or post-visit science activity is for upper key stage 2 students and allows the students to work scientifically in researching information about living things (dinosaurs on the Isle of Wight). Some of these can be seen at the **Restricted Area 5** dinosaur attraction during the students' visit. Students will be able to use the information they find to produce written summary material.

This resource engages students with the dinosaurs seen at the park

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Task Implementation

This is a pre-visit or post-visit activity.

Students research the many dinosaurs whose fossils have been found on the Isle of Wight, and they can choose one on which to complete an in-depth investigation. A useful link for students to use for research is <http://www.dinosaurisle.com/dinosaurs.aspx>

Students will look at that dinosaur's characteristics and link these to their habitat and evolution, and will also explore reasons for their ultimate extinction.

Students will then write up their findings, and ultimately produce a leaflet or information poster entitled 'Dinosaurs of the Isle of Wight'.

Ability Levels

This resource is suitable for students in upper key stage 2. There are 2 variants of the resource: one resource for lower ability students and one resource for higher ability students. Teachers could adapt the content for students' needs by simplifying instructions where appropriate, or adding more complex tasks.

Key skills practised in this unit:

- ▶ Working scientifically
- ▶ Making decisions about how to record and analyse data and research
- ▶ Identifying how animals adapted to suit their environment in different ways
- ▶ Researching and understanding how information about living things that inhabited the Earth millions of years ago is discovered (fossils)
- ▶ Using scientific terminology to describe and summarise findings.

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 science.

SUBJECT

Science

UNIT

Biology - Evolution

OPPORTUNITIES FOR USE

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

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resource numbered:

106031
106032

Learning Opportunities

Pre-Visit or Post-Visit

- ▶ Students to complete tasks within the KS2 Science resource linked to this document:

Project Dino Coast!

Resource ID: **106031** (KS2U low ability) **106032** (KS2U higher ability)

- ▶ Students complete their research on their chosen dinosaurs
- ▶ Students complete the extension task summarising their findings about dinosaur species found as fossils on the Isle of Wight.

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Learning Outcomes

- ✓ Students recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.
- ✓ Students will be able to name a variety of dinosaur species that were once found in the local and wider environment.
- ✓ Students will use scientific language to explain and describe their research findings.
- ✓ Students will use literacy skills and may use ICT in the presentation of their 'Dinosaurs of the Isle of Wight' leaflet / poster.

Possible follow-up tasks:

Key stage 2 students could also:

- ▶ Complete a investigation into dinosaurs of the world (such as those seen at Blackgang's *Restricted Area 5*) and their habitats and adapted characteristics.

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