

TEACHER NOTES

Science: Biology

Plants

Contextual Summary

This resource is for students in lower key stage 2 and relates to the 'Plants' part of the Science National Curriculum.

This on-site task focuses on the variety of plants found in the woodland and garden areas of Robin Hill.

Tasks are designed to appeal to students in lower key stage 2.

Task Implementation

This is an on-site resource that is designed to be completed during

the walk around Robin Hill. There is particular reference to the area around the pond. The resource is designed to be used during the walk. Students will complete a worksheet that identifies the different parts of the plant to their function. They can then make careful observations and record their findings as drawings, to show how the plant is

affected by factors such as water and light.

Ideally, teachers will have introduced students to the variety of plants and the basic requirement for plant growth (air, light, water and room to grow).

The optional post-visit aspects of the task will enable students to work scientifically by comparing the effect of different factors on plant growth, eg. amount of light or the amount of fertiliser. Students can extend their understanding to the life cycle of plants with particular reference to seed production.

Ability Levels

This resource is suitable for students in lower 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:

- ▶ Making systematic and careful observations
- ▶ Recording findings as drawing and labelled diagrams
- ▶ Identifying differences related to simple scientific ideas.

Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum, for key stage 2 Science, and the Curriculum for Excellence.



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ROBIN HILL
COUNTRY PARK

SUBJECT

Science: Biology

UNIT

Plants

OPPORTUNITIES FOR USE

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



✗ Periphereal Task

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P4-P5

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resources numbered:

105051
105052

Learning Opportunities

Pre-Visit

- ▶ It is suggested to teachers that students be introduced to the variety of plants and the basic requirement for plant growth (air, light, water and room to grow).

During the Visit

- ▶ Students complete the Science resource/s linked to this document: *Plants Have Structure!*

Resource ID: **105051** (KS2L lower ability) **105052** (KS2L higher ability)

Post-Visit

- ▶ Optional post-visit aspects of the task - students could work scientifically by comparing the effect of different factors on plant growth, eg. amount of light or the amount of fertiliser.

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Enrichment Opportunities

- ▶ Opportunities exist for students to gain valuable practice in the area of working scientifically.
- ▶ They will also experience the variety of plant life and varying habitats.

Learning Outcomes

- ✓ Students will be aware of the relationship between structure and function.
- ✓ They will explore the effects of different factors on plant growth.

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