

TEACHER NOTES

Science: Biology

Classification & Biodiversity

Contextual Summary

This resource is for students at key stage 4 and relates to the 'Ecosystems' part of the Science National Curriculum, focusing on classification and biodiversity.

The tasks link to various woodland and garden areas at Robin Hill that students will walk through whilst enjoying the various activities.

Tasks are designed to appeal to students at key stage 4 working at lower, medium or higher abilities.

Task Implementation

This is an on-site resource that relates to the plants the students will observe as they walk through the woodland.

They can also investigate variation in leaves and state how the variation is beneficial to the plant. Students will then complete a worksheet to discover the importance of biodiversity.

Ideally, teachers will have introduced students to biodiversity and classification systems prior to their visit.

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Ability Levels

This resource is suitable for students in key stage 4.

There are 3 variants of the resource: one resource for lower ability students, one resource for medium ability 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:

- ▶ The development of scientific thinking
- ▶ Appreciating the power and limitations of science and considering ethical issues which may arise
- ▶ Evaluating environmental implications.

Relationship to Curriculum

The above skills are required to be taught and practised as per the National Curriculum, for key stage 4 Science, and the Curriculum for Excellence.



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ROBIN HILL
COUNTRY PARK

SUBJECT

Science: Biology

UNIT

Classification & Biodiversity

OPPORTUNITIES FOR USE

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



Peripheral Task

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This is an on-site resource that relates to the plants the students will observe as they walk through the woodland.

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characteristics and enter them onto the classification worksheet.

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They can also investigate variation in leaves and state how the variation is beneficial to the plant. Students will then complete a worksheet to discover the importance of biodiversity.

Ideally, teachers will have introduced students to biodiversity and classification systems prior to their visit.

CURRICULUM / SYLLABUS

- ✓ All exam boards

Applies to Resources numbered:

1	0	5	1	2	1
1	0	5	1	2	2
1	0	5	1	2	3

Learning Opportunities

Pre-Visit

- ▶ It is suggested to teachers that students be introduced to biodiversity and classification systems prior to their visit.

During the Visit

- ▶ Students complete the Science resource/s linked to this document: *Characteristics Matter!*

Resource ID: **105121** (KS4 lower ability) **105122** (KS4 mid ability)

105123 (KS4 higher ability)

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Enrichment Opportunities

- ▶ Students will experience biodiversity in plants which can lead to a development in their skills of scientific thinking.

Learning Outcomes

- ✓ Students will demonstrate the ability to classify organisms according to their characteristics.
- ✓ Students will be able to investigate variation in leaves.
- ✓ Students will demonstrate an understanding of the importance of biodiversity.

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