



KS4 Science Biology Biodiversity & Classification



Characteristics Matter! Biodiversity & Classification at the Park...

Student Introduction

- As well as enjoying the activities you can also find out about some of the plants that are growing at Robin Hill. You can:
 - ✓ Study the classification and variation charts.
 - ✓ Observe the characteristics and leaves of the various plants.
 - ✓ Classify the plant according to its characteristics, and complete the worksheet using your observations.



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Study the classiff www.edudest.uk

- » Observe the characteristics of the plant as listed in the chart.
- » In the space next to the photo you can write the name of the species, draw what you see or take a photo using your mobile phone.

Step 2

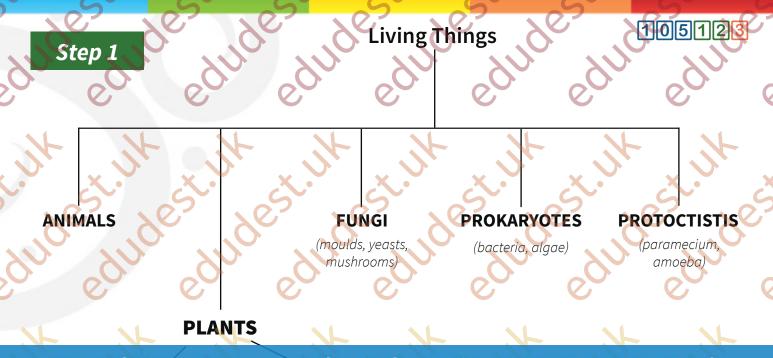
- » Study the classification chart on page 3 (flowering plants)
- » Find another example of a Eudicotyledons (dicotyledons) flowering plant and enter the details into the empty box.



Step 3

- » Find another example of a monocotyledon flowering plant and enter the details into the empty box on page 4.
- » Annotate with characteristics seen and any other relevant information.



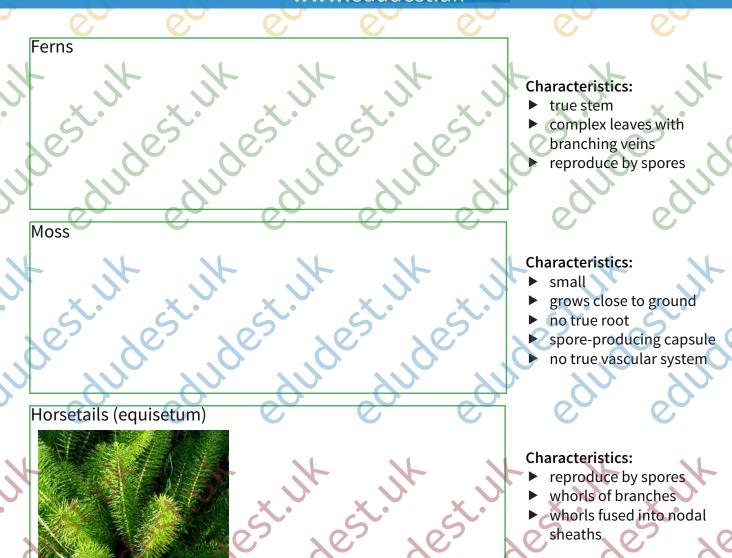


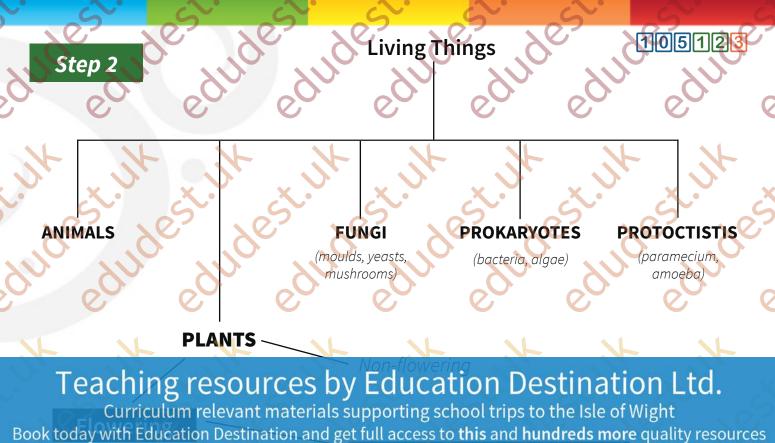
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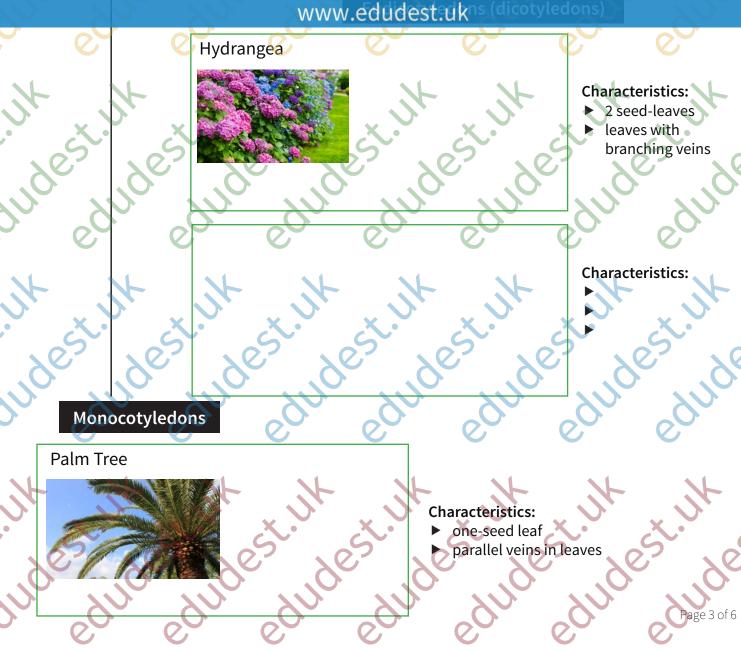
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Step 3

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Biodiversity is the wide range of difwww.edudest.ukid anima

Plants biodiversity is important for the development of drugs, sources of food, pollination, dyes, fibres, fuel and fodder.

Biodiversity allows living organisms to adapt to changing conditions such as climate change.



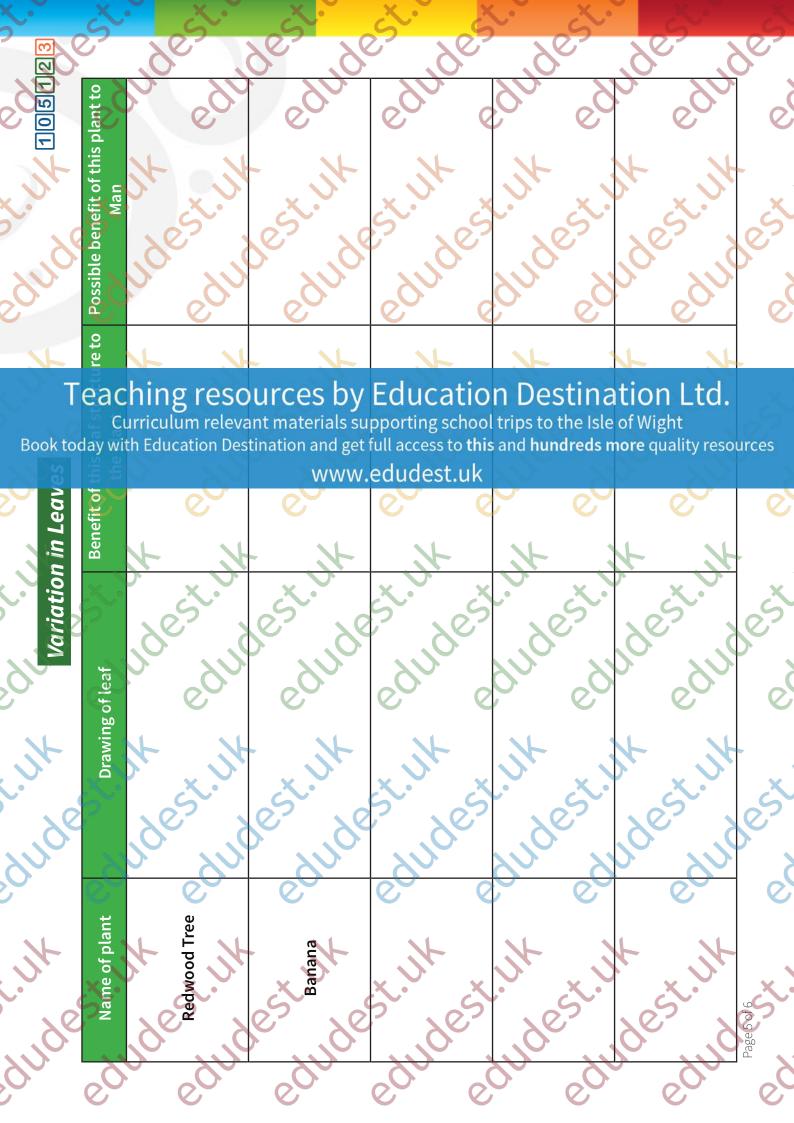
Task





Step 4

- 1. Study the variation chart on page 5.
- 2. Observe the leaves of different plants.
- 3. Search for a Redwood tree and a Banana plant.
- 4. Draw their leaves onto the chart.
- 5. Fill in the first two columns of the chart.
- 6. Look for leaves with a different structure.
- Write the name of the plant onto the chart, there is usually a label close by.





Step 5

Think about the possible benefits of the leaf structure to the plant.

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Complete the third column of the chart on page 5.

You can choose one of the following or write your own ideas:

- Spikes/thorns for protection from pests.
- Smaller surface area for reduction of water loss.

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Step 6

Focus on the 'possible benefits to Man' column.

Complete the last column of the chart.



- Consider how this plant could possibly benefit Man.
- Use the 'Useful information' paragraph on page 4 to help you.

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