



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 classification chart on page 2 (non-flowering plants).
- » 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.

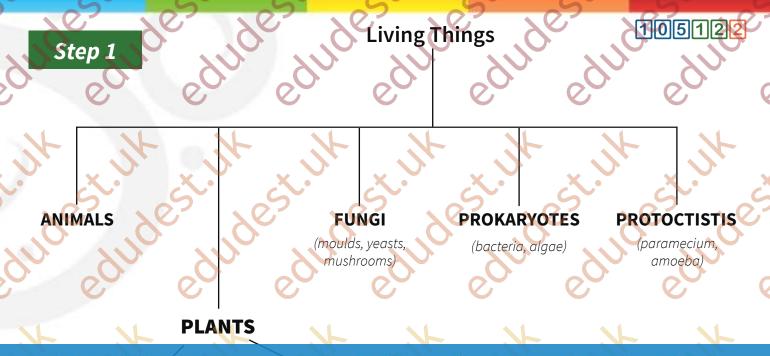
Step 2

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







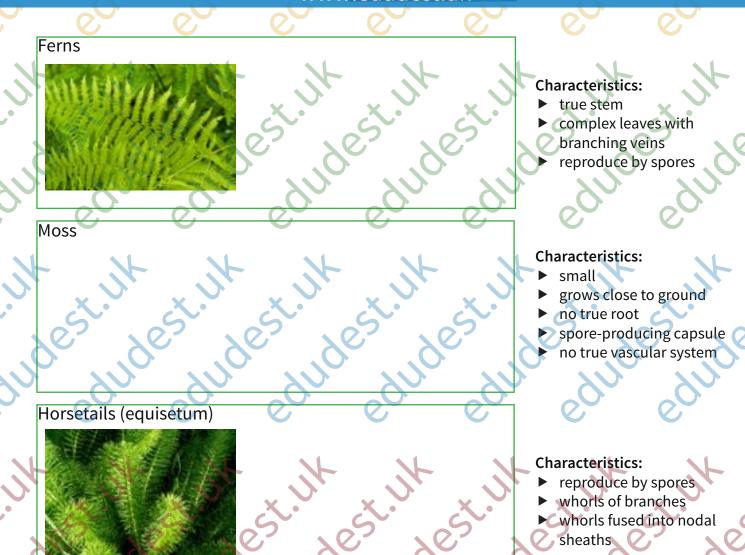


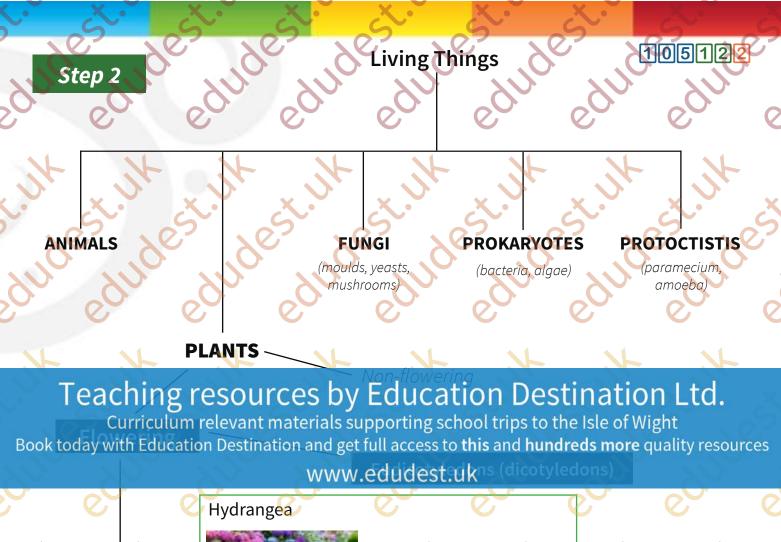
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BIODIVERSITY

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Useful information:

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Biodiversity is the wide range of different species of plants and animals.

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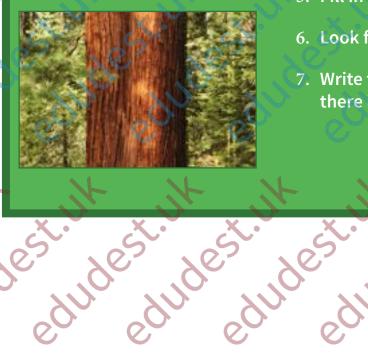
- Biodiversity is environmentally important in maintaining sustainability.



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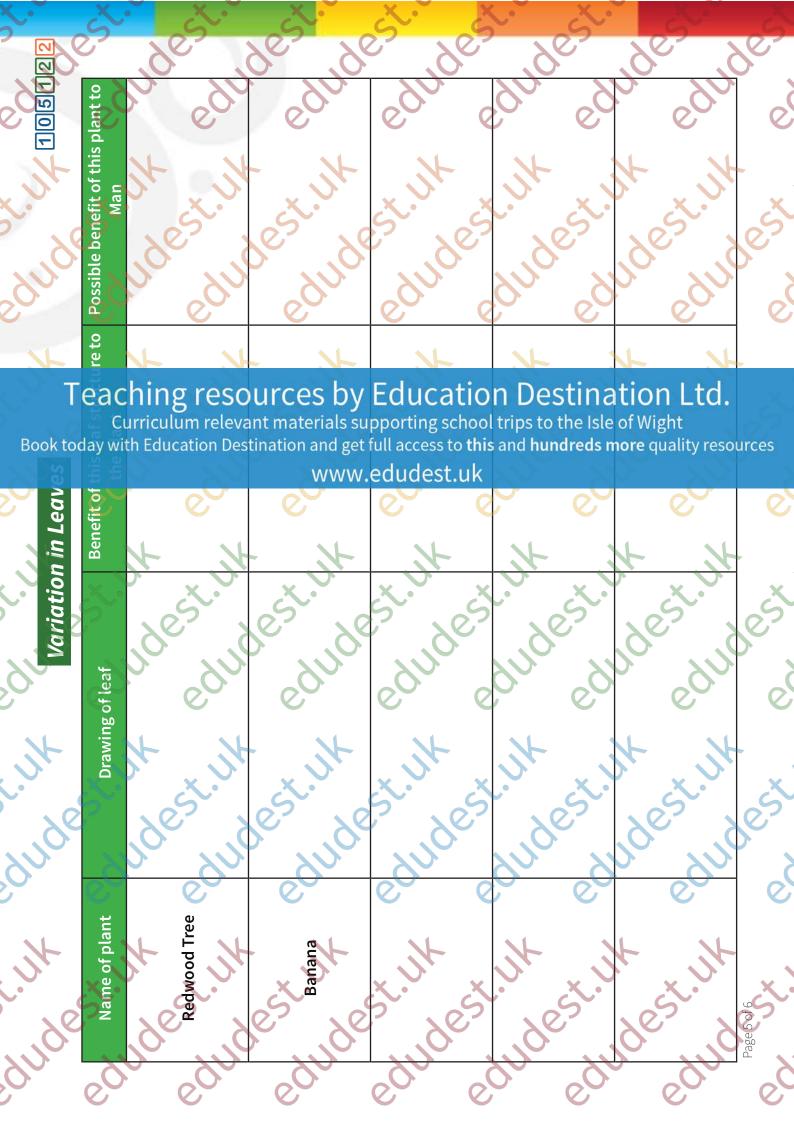
Step 3

- 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.
- 7. Write the name of the plant onto the chart, there is usually a label close by.

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Step 4

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 5

Read through the possible benefits to Man:

- Maintains sustainability of ecosystem
- Important for the development of drugs
- Important as a food source
- Important for pollination
- Can be used as a fuel
- Can be used to produce fires
- Important for the development of fodder
- Can be used in the dyeing process
- Important to allow adaptation to climate change.
- 1. Consider how your plants could possibly benefit Man.
- 2. Complete the last column of the chart.

