

Glenveagh Nature Education Programme

MODULE FACT SHEET FOR TEACHERS

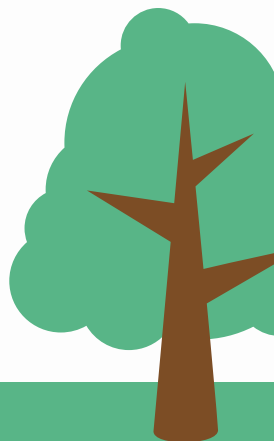
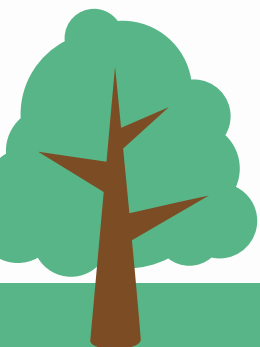
Making Nature Count

WHO IS THIS MODULE IDEAL FOR?

- 5th Class and upwards
- Your students can discuss and estimate percentages
- They have an understanding of Biodiversity and concept of habitats.
- They are familiar with bar graphs
- They have been introduced to the layers of a woodland
- For this visit the full 4 hour visit with us is required and the relevant preparation work with the class is completed.

LEARNING OUTCOMES:

- Students will gain knowledge and an understanding of how maths is used by scientists in nature.
- Learn about facts about why surveys are conducted in nature.
- The meaning of the terms Biodiversity and Habitats.
- Learn about current threats and pressures to our habitats.
- Name the layers of the forest.
- Conduct a simple survey of a woodland habitat.
- See how scientists apply skills to show survey results visually.



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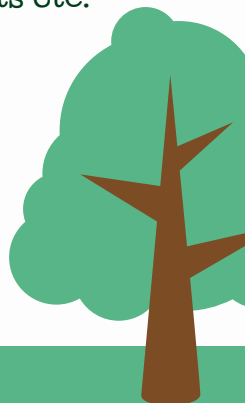
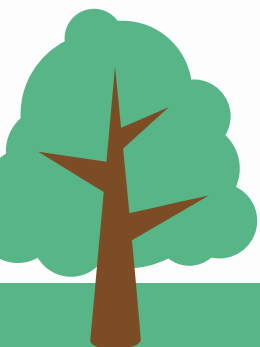
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HOW THE EDUCATION TEAM WILL DELIVER THIS PROGRAMME AND WHAT STUDENTS WILL EXPERIENCE:

- Students will openly discuss the use of maths by ecologists and environmental scientists
- The group will be encouraged to think about habitats and biodiversity at a global and local level with a focus on woodland habitats.
- Hands on surveying, including percentage estimating and measuring.
- Team work and communication skills.
- Create graphs from the days survey, plot results of percentage estimates in the 4 woodland layers on a bar chart.
- Group discussions and analysis of results, presentations of findings and conclusions on what surveys actually mean and do for Nature.

WHAT CAN YOU DO BEFORE YOUR VISIT TO GLENVEAGH?

- Do some research into what Biodiversity and Habitats are
- Explore the layers of the woodland.
- Talk about where surveys have been done in nature, such as survey of the rainforest, polar monitoring, fish numbers etc.
- Encourage the class to think why surveys are done, why we need to monitor nature and why nature matters to us.
- Discuss ecosystem services, such as forests providing wood and oxygen, bogs helping to prevent flooding, freshwater for drinking, fish for food and leisure pursuits etc.



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WONDERING WHAT TO DO AFTER YOUR VISIT?

- Conduct your own survey
- This could be a survey of different plants in a hedgerow, different bugs in the ground, different birds at your bird feeder etc.
- Plot your results in a graph.
- Carry out a winter survey around some trees or hedgerow, followed up by a spring survey and a summer survey.
- Compare the results of the same area in different seasons.

USEFUL LINKS FOR MORE INFORMATION

- http://www.noticenature.ie/Nature_Surveys.html
- <https://www.opalexplorenature.org/schools>
- <http://www.heritageinschools.ie/teachers-resources/p2?q=>
- <https://www.scoilnet.ie/uploads/resources/18739/18420.pdf>
- <https://greenschoolsireland.org/wp-content/uploads/2016/10/Biodiversity-2016-17.pdf>
- <https://www.planetdolan.com/15-beautiful-examples-of-mathematics-in-nature/>

