

SDG15 Seeding Sustainability

MM3: Examining Edible / Medicinal Plants



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Research and Development

Lesson 2: Webquest - Habitats, Flora and Species

Subjects: English, Geography, Home Economics, Irish, Science, SHPE

Lesson Title and Summary: Webquest - Habitats, Flora And Species

Ireland hosts a range of habitats, from blanket bogs to wetland systems, rivers and estuaries, native woodland and marine. Over 100 habitat types have been classified in Ireland, boasting a rich array of flora and fauna. This lesson asks learners to use independent and collaborative research skills to discover information about habitats in Ireland and the different types of flora and fauna that can be found in each.

Vocabulary: Biota, Coastal habitat, Directory, Edible, Flora, Fauna, Habitat, Medicinal, Open Water Habitat

In this lesson, the learner will:

- develop recording, analysis and evaluation skills
- conduct research into habitats of Ireland
- practice note taking and recording information
- reconnect with food, nature and community
- identify local edible flora

Materials

- Worksheet: Habitats, Flora and Species Web Quest
- Supporting Skills Worksheet: C.R.A.A.P Test
- Notes and worksheets from Lesson 1
- Internet Access



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ACTIVITY INSTRUCTIONS

In order for learners to show evidence of evaluating their sources, it is advisable that they complete the SDG 4 Support Skills: C.R.A.A.P Test before doing this lesson. This worksheet can be set as a flipped classroom task, or used as the basis of its own lesson.

Activity 1 Habitats, Flora and Species webquest (50 mins)

1) Direct learners to the Habitats, Flora and Species worksheet. Go through the instructions and check understanding.

2) Instruct learners to work in pairs to complete the tasks on the worksheet. They can use the worksheets from Lesson 1 to support their research. Give 30-35 minutes. The information they are to find out is as follows:

1. *What are the 2 major habitats of Ireland?*
2. *Identify one edible flora from each major habitat.*
3. *What is an “open water” habitat?*

- a. *What does it include?*
- b. *What species of flora is found here that is edible?*

4. *What is a “coastal” habitat?*
 - a. *What does it include?*
 - b. *What species of flora is found here that is edible?*

3) Assign pairs into small groups of 6 (3 x pairs per group). Each pair has time to present their findings.

REFLECTIVE EXERCISE: 3-2-1 (10 mins)

- Three things they feel they have learnt from the tasks.
- Two things they found most interesting and would like to explore more.
- One – their opinion they have about the tasks.

Use Post-its or a mentimeter survey - www.mentimeter.com - to gather reflections

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EXTENSION / REDUCTION ACTIVITIES:

Reduction (40 min lesson): For a shorter lesson, spend less time on the share and compare findings in Step 3.

Extension (80 min lesson): For a longer lesson, spend more time guiding learners through evaluating online sources. Learners could upload findings to a whole class, shared document to begin the initial pages of a directory.

Flipped Classroom or standalone lesson for evaluating sources use supporting skills: C.R.A.A.P. test worksheet

- Evaluating Sources C.R.A.A.P <https://researchguides.ben.edu/source-evaluation>
- Youtube directions for evaluating sources (2:16 mins) <https://youtu.be/EyMT08mD7Ds>

MEDIA BOX: (materials, online video links, extra resources, case studies etc)

Grow it Yourself 'Veg Directory' <https://gijy.ie/get-growing/veg-directory/>

Habitats <https://www.wildlifetrusts.org/habitats>

Coastal habitats

<https://www.wildlifetrusts.org/habitats/coastal#:~:text=Coastal%20habitats%20are%20found%20w,herever%20the%20land%20meets%20the%20sea.&text=The%20coast%20is%20home%20to,%2C%20mudflats%2C%20saltmarshes%20and%20machair.>

Coral habitat <https://www.irishtimes.com/news/ireland/irish-news/irish-scientists-discover-new-coral-habitat-off-kerry-coast-1.2260381>

LOCAL TRIP / EXPERTISE / ADDITIONAL WORK AND ASSESSMENTS

- Visit the local library to search existing for examples of directories.
- Interview staff at a garden centre.
- Ask / interview grandparents for local edible / medicinals



WEBQUEST

ANSWER SHEET

1. What are the 2 examples of major habitats of Ireland? Grassland, Heath, Bog
2. Identify one edible flora from each major habitat.
 - Learners' own answers - must provide proof of research that plant is edible
3. What is an “open water” habitat?
 - What does it include? “Open water” habitat rivers, canals, lakes, reservoirs, ponds and, uniquely, turloughs
 - What species of flora is found here that is edible? Students own answers - must provide proof of research that plant is edible
4. What is a “coastal” habitat?
 - What does it include? “Coastal” muddy shores, rocky shores, sandy shores, shingle beaches, brackish water bodies, saltmarsh, maritime flushes and streams, sea cliffs and sand dunes and machair
 - What species of flora is found here that is edible? Learners' own answers - must provide proof of research that plant is edible





WEBQUEST

You are going to conduct some investigation and research. You will do this in pairs. You will use the internet and/or library to source information and you must show evidence of evaluating your sources (C.R.A.A.P. Test).

STEP 1

There are 5 questions to research. BEFORE you begin, read through the questions and highlight the key words in each. These are the words you will use to help narrow down your search for information.

1. What are the 2 examples of major habitats of Ireland?
2. Identify one edible flora from each major habitat.
3. What is an “open water” habitat?
 - a. What does it include?
 - b. What species of flora is found here?
 - c. Which species found here are edible?(If any)
4. What is a “coastal” habitat?
 - a. What does it include?
 - b. What species of flora is found here?
 - c. Which species found here are edible?(If any)
5. Draw or make a list to show where these habitats are in your local area/county/country.

STEP 2

Organise your notes into a short presentation of your findings. Remember to show evidence of your CRAAP Test in the sources you referenced.

STEP 3

Present your findings to a small group. Compare your information and add to your notes if there are any interesting or relevant points from other group members.

