


<b>Webquest title</b>	Biodiversity matters?
<b>Involved Subjects</b>	English, Sociology, Information and communication technology, Business
<b>Timing</b>	1h (classroom)+ 4h (homework) +1h (feedback)

<b>Leading in</b>  Timing: 1h (classroom)	 <p>shutterstock.com • 427195957</p> <p><a href="https://pixabay.com/images/search/biodiversita/">https://pixabay.com/images/search/biodiversita/</a></p>
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(SLO)

<https://www.youtube.com/watch?v=oeJAwnwaz0Y>  
<https://www.youtube.com/watch?v=7xZ3RX8ZMG4>

(ENG)

<https://www.youtube.com/watch?v=bk2nnDl68g>  
<https://www.youtube.com/watch?v=wXJiHr8jWBs>  
<https://www.sierraclub.ca/en/video-biodiversity-in-ontario>



## WHAT IS BIODIVERSITY?

Biodiversity, or “biological diversity”, is the variety of life on Earth. It includes all living things and the ways they interact with each other and their environment.



**Species Diversity**  
refers to all of the different types of species found in a certain habitat, ecosystem or region



**Ecosystem Diversity**  
is the variety of different ecosystems within a larger region. Ontario is home to a broad assortment of ecosystems, including prairies, forests and woodlands, wetlands and tundra.



**Genetic Diversity**  
Genes are the building blocks that create species. For example, genes determine your hair and eye colour. The genetic differences among individuals within a species are called genetic diversity. Species with greater genetic diversity can more easily adapt to a changing environment over time.

<https://www.sierraclub.ca/en/video-biodiversity-in-ontario>

Biodiversity is a key concept in ecology and has importance on both local and global scales. It is the degree of variation of life, or putting it more simply, the number of different individuals and lifeforms in an area. Scientists usually measure biodiversity on either genetics, species, or ecosystem levels. For example, if you wanted to measure the biodiversity of beetles on a global scale, you would find that there are over 350,000 known species of beetles on the planet. However, if you wanted to measure the biodiversity of beetles locally, you might only find 10 or 20 species. The reason for this difference is that biodiversity varies greatly with the location, habitat, and species being surveyed. In general terms, biodiversity tends to be the highest at the equator, and it decreases at higher latitudes - i.e. as you get further away from the equator. Knowing this information, where would you expect to find the habitats with the lowest biodiversity?

[https://www.youtube.com/watch?v=\\_bk2nnDI68g](https://www.youtube.com/watch?v=_bk2nnDI68g)

### Assigned Task

Do you know what biodiversity is?

Why is biodiversity important?

What can you do to protect the environment and biodiversity?

You've been commissioned by the school to realize a brochure or a video spot to inform and sensitize your peers about the importance of protecting the environment and biodiversity.

Identify working groups made up of four students:

- Create either a brochure or a spot to inform about the importance of protecting the environment and biodiversity.
- One member of each group will plant a native plant in his/her garden and try to remove invasive plants from our surroundings to support pollinators.



Erasmus+



Šolski center  
Nova Gorica

	<ul style="list-style-type: none"> <li>- Each member of the group will calculate and reduce his/her Ecological Footprint (drive less, increase the energy efficiency of your home, reduce waste and buy locally)</li> </ul>
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<b>Process</b>	<ol style="list-style-type: none"> <li>1. At home watch the video and write down your opinions/feelings.</li> <li>2. Download the app "Environment Challenge" on your mobile and start your challenge.</li> <li>3. Read the indicated resources and discover: what is biodiversity? what is the situation in Slovenia? Why is biodiversity important?</li> <li>4. You'll be divided into 4 groups: <ul style="list-style-type: none"> <li>- Each group will create either a brochure or a spot to inform about the importance of protecting the environment and biodiversity.</li> <li>- One member of each group will plant a native plant in his/her garden and try to remove invasive plants from our surroundings to support pollinators and document it (a video, a photo,...)</li> <li>- Each member of the group will calculate and reduce his Ecological Footprint (drive less, increase the energy efficiency of your home, reduce waste and buy local) using the app "Environment Challenge"</li> </ul> </li> </ol> <p>Assign the following roles among the group based on your abilities: - -</p> <ul style="list-style-type: none"> <li>- a director,</li> <li>- an interviewer,</li> <li>- a technician (of editing a movie)</li> <li>- and a secretary (logbook).</li> </ul> <ol style="list-style-type: none"> <li>5. Document the backstage of your work.</li> </ol>
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**Resources:**

<https://www.climatechangepost.com/slovenia/biodiversity/>

[https://www.arso.gov.si/soer/biotska\\_raznovrstnost.html](https://www.arso.gov.si/soer/biotska_raznovrstnost.html)

<https://www.nationalgeographic.org/encyclopedia/biodiversity/>

<https://www.britannica.com/science/biodiversity>

<https://www.nationalgeographic.com/news/2018/03/ipbes-biodiversity-report-conservation-climate-change-spd/>

<https://www.theguardian.com/news/2018/mar/12/what-is-biodiversity-and-why-does-it-matter-to-us>

<https://www.sierraclub.ca/en/video-biodiversity-in-ontario>

<https://www.footprintcalculator.org/signup>

**Tools:**

Smartphone

App "Environment Challenge"

Video camera

Premiere Adobe, I Movie

Word  
<https://pixabay.com>

### Learning Goals:

After completing the WebQuest assignment, you will:

- a) Know:
  - the meaning of biodiversity
  - The importance of protecting the environment and biodiversity
  - About biodiversity in Slovenia
- b) Be able to read an informative text regarding a specific thematic area
- c) Be able to read a product label
- d) think of the society role? in informing and sensitizing your peers about the importance of protecting the environment and biodiversity
- e) Improve your level of participation in school life

Acquired key competence	Social Skills	Learnt knowledge and contents
<ul style="list-style-type: none"> <li>● Critical thinking               <ul style="list-style-type: none"> <li>○ Data interpretation</li> </ul> </li> <li>● Digital and technology-based competences</li> <li>● Communication in foreign languages</li> <li>● Cooperation and communication in a team</li> <li>● Becoming an Eco sustainability Influencer</li> <li>● Ability to select products in order to become a conscious consumer</li> </ul>	<ul style="list-style-type: none"> <li>● Experiment active citizenship by engaging in activities aimed at promoting correct behaviours</li> <li>● Capacity to collaborate with peers.</li> <li>● Social awareness related to the topic</li> </ul>	<ul style="list-style-type: none"> <li>● Informational text</li> <li>● Knowledge of the biodiversity</li> <li>● Know which behaviours lead to a sustainable lifestyle</li> </ul>