

# Curricular Mapping Tool - N5 Environmental Science



Practical work to support  
Environmental Science





Key Area	SSERC Resources
KA1 - Investigating ecosystems and biodiversity	<ul style="list-style-type: none"><li>• <a href="#"><u>In Bloom - hanging drop</u></a></li><li>• <a href="#"><u>Counting algae using a haemocytometer</u></a></li><li>• <a href="#"><u>Explore our World - Challenge 1</u></a></li><li>• <a href="#"><u>Explore our World - Challenge 2</u></a></li><li>• <a href="#"><u>Explore our World - Challenge 3</u></a></li><li>• <a href="#"><u>Biology on your doorstep activities</u></a></li><li>• <a href="#"><u>Grids for sampling</u></a></li><li>• <a href="#"><u>MRS GREN table</u></a></li><li>• <a href="#"><u>Observation</u></a></li><li>• <a href="#"><u>Sampling tasks - introduction</u></a></li><li>• <a href="#"><u>Sampling tasks</u></a></li><li>• <a href="#"><u>Brine shrimp</u></a><ul style="list-style-type: none"><li>◦ <a href="#"><u>Activities</u></a></li><li>◦ <a href="#"><u>Ecology</u></a></li><li>◦ <a href="#"><u>Summer 2010 session</u></a></li><li>◦ <a href="#"><u>SSERC article</u></a></li><li>◦ <a href="#"><u>Keeping brine shrimp</u></a></li><li>◦ <a href="#"><u>The bottle ecosystem</u></a></li></ul></li><li>• <a href="#"><u>Let's Talk: Peat Bogs</u></a></li><li>• <a href="#"><u>Biodiversity Discussion Activity</u></a></li><li>• <a href="#"><u>Kick sampling - aquatic invertebrate diversity</u></a></li></ul>

KA2 -  
Interdependence

- [Environmental microbial sampling](#)
  - [Measuring lichen abundance on trees](#)
  - [Distribution of species - What's in, and what's out?](#)
  - [Let's Talk Plants - Discussion Activity](#)
  - [Sampling - pupil materials](#)
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- Dissecting owl pellets
    - [Bulletin article](#)
    - [Pellet Dissection](#)
    - [Bones](#)
    - [Rodent skeleton](#)
    - [Owl information](#)
  - [Investigating photosynthesis using seaweed](#)
  - [Investigating photosynthesis using immobilised algae](#)
  - [Investigating photosynthesis using spinach discs](#)
  - [Investigating photosynthesis using Egeria najas](#)
  - Dehydrogenase activity: [Pupil Guide](#) and [Teacher Guide](#)
  - [Algae and Photosynthesis / Respiration](#)
  - Nitrogen cycle - [Fixing Workshop](#)
  - Nitrogen cycle - [Cards](#)
  - [Recycling](#)
  - Limiting factors of photosynthesis: [PPT](#), [protocol](#)
  - Assignment Suggestions - Bulletin from 2017 - members only

Key Area	SSERC Resources
KA3 - Human influences on biodiversity	<ul style="list-style-type: none"> <li>• <a href="#">Biodiversity and species richness</a></li> <li>• <a href="#">Let's Talk - Environment (Discussion Activity)</a></li> <li>• Food security - Case Study ppt and <a href="#">resource, doc</a></li> <li>• Eutrophication: <a href="#">Teacher/Technical guide</a>, <a href="#">Pupil activity</a></li> <li>• Carbon dioxide and global warming - Bulletin article, Autumn 2018 (members only - available on SSERC website)</li> <li>• <a href="#">Fertiliser design</a></li> <li>• <a href="#">Nutrient deficiency</a></li> <li>• <a href="#">Germination of mung beans - time lapse</a></li> <li>• <a href="#">Are plants the answer?</a></li> <li>• <a href="#">Carbon cycle - card game</a></li> <li>• <a href="#">Discussion Activity - Tricky decisions</a></li> <li>• <a href="#">NASA Earth Observatory Videos</a></li> </ul>
Additional resources of use in this section	<ul style="list-style-type: none"> <li>• <a href="#">Graphing and statistical analysis using R</a></li> <li>• Embracing outdoor learning - Bulletin March 2023 (No. 278)</li> <li>• <a href="#">Seed beetles - choice of egg laying sites</a></li> </ul>