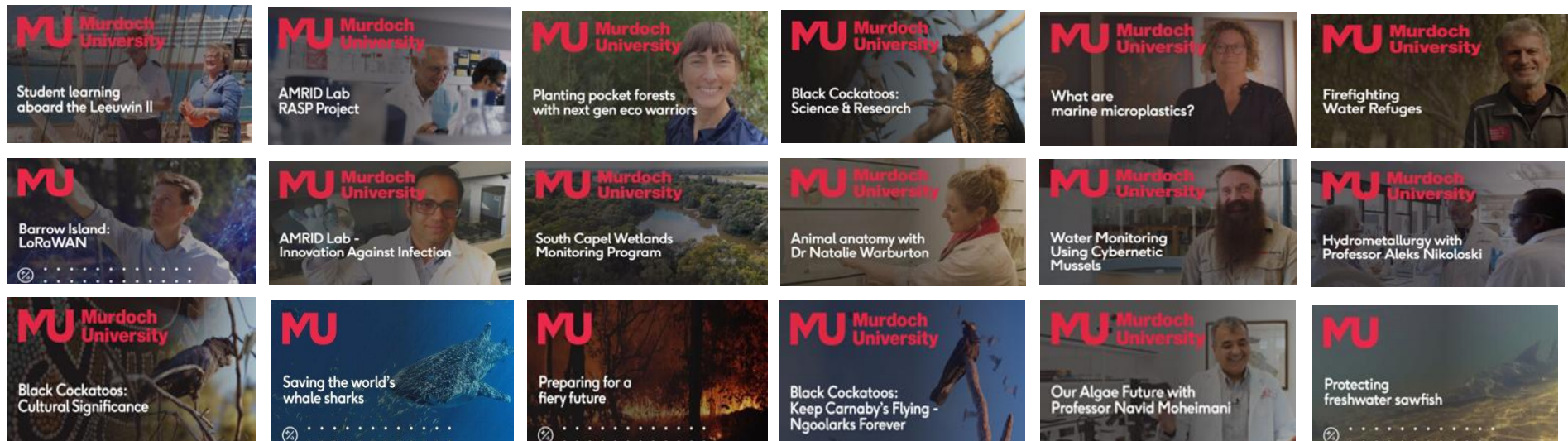


# Welcome to the Harry Butler Education Hub Resource Summary







This document provides an overview of current supplementary teaching resources offered by the Harry Butler Institute, via the Education Hub. Below is a snapshot of the video resources to be found on the [Harry Butler Institute Playlist](#) on YouTube. All these resources are available for free online. Assessment resources have been developed for several of the videos in the **Resource Summary Table** on the following pages. Please submit your request for access to these free to our [Request Form](#).





| HBI Education Resource                                     | Content Summary  | Fact Sheet<br>Case Study<br>Video<br>Worksheet<br> | Year 7 | Year 8 | Year 9 | Year 10 | Year 11  | Year 12             |
|--|--|--|--------|--------|--------|---------|--|---------------------|
| WA's Latest Invader – the tiny beetle destroying our trees | <ul style="list-style-type: none"> <li>Summarises latest knowledge and management of this new invasive species in WA for students</li> <li>Public lecture link (for teachers)</li> </ul>                                 | <br>   |        |        |        |         | Biology Unit 1                                 | Biology Unit 4      |
| Ecological Restoration of Abandoned Farmlands              | <ul style="list-style-type: none"> <li>Article on overcoming barriers like weeds and past land use to restore biodiversity in WA</li> <li>Explores multiple factors required to achieve restored biodiversity</li> </ul> | <br>   |        |        |        |         | Ag Science & Tech Unit 1<br><br>Biology Unit 1 | Biology Units 3 & 4 |
|  | <ul style="list-style-type: none"> <li>Focuses on protecting dugongs through habitat preservation of seagrass ecosystems.</li> <li>Aligns with marine conservation and biodiversity topics.</li> </ul>                   | <br>   |        |        |        |         | Biology Unit 1                                 |                     |



| HBI Education Resource   | Content Summary  | Fact Sheet<br>Case Study<br>Video<br>Worksheet  | Year 7  | Year 8                           | Year 9                            | Year 10                                       | Year 11   | Year 12   |
|--|--|---|---|----------------------------------|-----------------------------------|---|---|---|
|   | <ul style="list-style-type: none"> <li>Explores the use of algae for treating waste-water, removing pollutants, carbon capture, and the production of oxygen, stock feed, biofuels, pigment and other high-value products.</li> <li>Year 11 and 12 worksheets in development.</li> </ul> | <br>    | ACSSU111<br>ACSSU113<br>ACSSU116              | ACSSU111<br>ACSSU113<br>ACSSU116 |                                   |   | Engineering Studies, Marine & Maritime Studies, Physics (All Units) | Engineering Studies, Marine & Maritime Studies, Physics (All Units) |
|  | <ul style="list-style-type: none"> <li>Impacts of microplastics on ecosystems and health.</li> <li>Supports pollution studies in environmental science curricula.</li> </ul>   | <br> | ACSSU112<br>ACSSU116<br>ACSHE120<br>AC SIS124 | ACSSU151<br>AC SIS145            | ACSSU176<br>ACSHE160<br>AC SIS169 | ACSSU187<br>ACSSU189<br>ACSHE194<br>AC SIS205 |   |   |



| HBI Education Resource                                | Content Summary   | Fact Sheet<br>Case Study<br>Video<br>Worksheet<br> | Year 7   | Year 8                                       | Year 9                                       | Year 10                                      | Year 11          | Year 12          |
|---|---|--|--|--|--|--|------------------|------------------|
| <p>Hydrometallurgy with Professor Aleks Nikoloski</p> | <ul style="list-style-type: none"> <li>The chemistry of extracting metals, such as silver and gold, from ores.</li> <li>Resource includes a glossary of terms.</li> <li>Year 11 and 12 worksheets in development.</li> </ul>        |  | ACSSU113<br>ACSIS125                                     | ACSSU113<br>ACSIS125                         | ACSSU187<br>ACSHE192                         | ACSSU187<br>ACSHE192                         | Chemistry Unit 1 | Chemistry Unit 3 |
| <p>Dr Volker Framenau<br/>Modernising Taxonomy</p>    | <ul style="list-style-type: none"> <li>Digitizing taxonomy for species identification.</li> <li>Demonstrates the integration of technology in biodiversity studies.</li> <li>Worksheets in development.</li> </ul>                  |  | ACSSU111<br>ACSIS124<br>ACSIS125<br>ACSIS126<br>ACSIS129 | ACSSU149<br>ACSIS139<br>ACSIS140<br>ACSIS144 | ACSSU176<br>ACSIS164<br>ACSIS165<br>ACSIS169 | ACSSU184<br>ACSHE191<br>ACSIS198<br>ACSIS203 |                  |                  |
| <p>Black Cockatoos:<br/>Science &amp; Research</p>    | <ul style="list-style-type: none"> <li>Scientists study this species to understand population health.</li> <li>GPS &amp; Tags show movement, habitat use &amp; behaviour</li> <li>Major threats</li> <li>Decision making</li> </ul> |  |  |  | AC9S9U<br><br>AC9S9U04<br>01                 |  | Biology Unit     |                  |