

# BRACKEN RIDGE STATE HIGH SCHOOL

## Year 9 Science

### Overview

LENGTH	UNIT	SUB TOPICS	ASSESSMENT
10 Weeks	Biology	<ul style="list-style-type: none"> <li>• Body systems in balance - coordination and control</li> <li>• Response to stimuli</li> <li>• Immune response</li> <li>• Vaccination technology</li> </ul>	<ul style="list-style-type: none"> <li>• Test – Homeostasis (70 minutes)</li> </ul>
10 Weeks	Physics	<ul style="list-style-type: none"> <li>• Heat energy</li> <li>• Conduction, convection and radiation</li> <li>• Heat insulation and energy efficiency</li> <li>• Sound and light</li> <li>• Longitudinal and transverse wave</li> <li>• Frequency, wavelength, pitch</li> <li>• Reflection and refraction and lenses</li> <li>• Hearing and seeing</li> </ul>	<ul style="list-style-type: none"> <li>• Experimental Investigation – Heat transfer and insulation</li> <li>• Test – Light and sound 70 minutes</li> </ul>
10 Weeks	Chemistry	<ul style="list-style-type: none"> <li>• Elements, compounds and molecules</li> <li>• Chemical reactions (types and equations)</li> <li>• Applying chemical concepts to observations</li> <li>• Atomic theory and structure</li> <li>• Ions and radioisotopes</li> </ul>	<ul style="list-style-type: none"> <li>• Experimental Investigation – Energy content of foods</li> <li>• Research Task - Radioisotopes</li> </ul>
10 Weeks	Earth Science Biology	<ul style="list-style-type: none"> <li>• Theories of Plate Tectonics</li> <li>• Investigating tectonic processes</li> <li>• Exploring ecosystems</li> <li>• Analysing ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>• Research Task – Ecosystems</li> </ul> <p>Students use data from their field report of a local ecosystem as well as researched information to complete task.</p>