

# BRACKEN RIDGE STATE HIGH SCHOOL

## Year 10 Science

The sequencing of these units will depend on conditions that occur in the school year.

LENGTH	UNIT	SUB TOPICS	ASSESSMENT
10 weeks	Biology	<ul style="list-style-type: none"> <li>Inheritable characteristics and DNA</li> <li>Cell structure and functioning</li> <li>Process of inheritance</li> <li>Mendelian genetic crosses incorporating complete, incomplete, co-dominant and sex linked characteristics</li> <li>Evolution and natural selection</li> </ul>	<ul style="list-style-type: none"> <li>Test - Mendelian Genetics and Natural Selection – 70 minutes</li> <li>In class stimulus response task on Evolution - 70 minutes</li> </ul>
10 weeks	Physics	<ul style="list-style-type: none"> <li>Displacement, velocity and acceleration</li> <li>Force, mass and acceleration</li> <li>Newton's Laws of motion</li> </ul>	<ul style="list-style-type: none"> <li>Student Experiment on safety features used in vehicles</li> </ul>
10 weeks	Chemistry	<ul style="list-style-type: none"> <li>Atoms, elements and compounds</li> <li>Classification of chemical reactions</li> <li>Writing and balancing equations</li> <li>Rates of reactions</li> <li>Structure of the periodic table</li> <li>Bonding and the periodic table</li> <li>Trends in the periodic table</li> </ul>	<ul style="list-style-type: none"> <li>Test: Periodic Table and Solubility – 70 minutes</li> <li>Student Experiment on Rates of Reaction</li> </ul>
10 weeks	Earth and Space Science	<ul style="list-style-type: none"> <li>Recycling in nature</li> <li>Natural influences on climate</li> <li>Human influences on climate</li> <li>Changing environments</li> <li>The universe</li> <li>Cosmology</li> <li>Earth and life</li> </ul>	<ul style="list-style-type: none"> <li>Report: Space Science</li> <li>Science Report on Global Systems based on primary and secondary data</li> </ul>

To better prepare students for success in a senior science subject year 10 teachers will select a discipline to teach and classes will rotate each term in order to complete all 4 disciplines in that year.