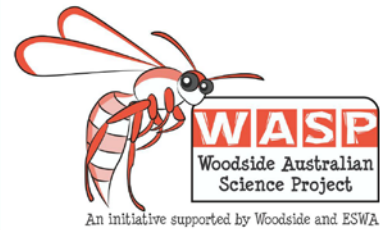


## At Home Learning – Year 9



In support of students and their Earth and Space Science learning, the following is a sequence of tasks and activities that could be carried out at home.

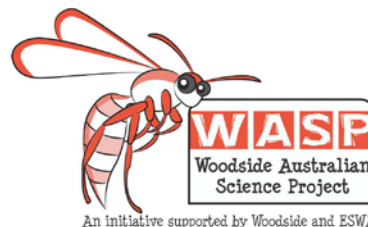
### Objectives:

At the completion of this unit of work students will:

- Understand the development of the theory of plate tectonics
- Be able to explain the geological activity that provides evidence for continental movement
- Understand the geohazards associated to tectonic plate movement

Focus	Activity/ies	WASP Support Resources
The theory of plate tectonics	<ul style="list-style-type: none"> <li>• Research the development of the theory of plate tectonics</li> <li>• Create your own 'tectonic plates' to explore continental fit</li> <li>• Much of the evidence for continental drift (which led to plate tectonic theory) was from secondary data. Explore primary and secondary data</li> <li>• Research supercontinents and what we can learn from them</li> </ul>	<p>Tectonic history -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=587">https://www.wasp.edu.au/mod/resource/view.php?id=587</a></p> <p>Plate jigsaw -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=234">https://www.wasp.edu.au/mod/resource/view.php?id=234</a></p> <p>Primary and secondary data collection -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=236">https://www.wasp.edu.au/mod/resource/view.php?id=236</a></p> <p>Supercontinents -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=591">https://www.wasp.edu.au/mod/resource/view.php?id=591</a></p>
Evidence for continental movement	<ul style="list-style-type: none"> <li>• Create your own model to represent seafloor spreading</li> <li>• Explore how rocks are dated and how this helps us to understand continental movement</li> <li>• Model the age of seafloor basalts at a spreading centre</li> </ul>	<p>Seafloor model -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=246">https://www.wasp.edu.au/mod/resource/view.php?id=246</a>                      (be very careful with the craft knife!)</p> <p>Rock age data -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=248">https://www.wasp.edu.au/mod/resource/view.php?id=248</a></p> <p>Magnetic stripes -  <a href="https://www.wasp.edu.au/mod/resource/view.php?id=252">https://www.wasp.edu.au/mod/resource/view.php?id=252</a></p>

## At Home Learning – Year 9



Focus	Activity/ies	WASP Support Resources
Evidence for continental movement continued	<ul style="list-style-type: none"> <li>Research polar reversals and how these have assisted us to track historical continental movements</li> </ul>	Polar reversal - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=256">https://www.wasp.edu.au/mod/resource/view.php?id=256</a>
Plate boundaries	<ul style="list-style-type: none"> <li>Research the major tectonic plates on Earth and the features of convergent, divergent and transform boundaries</li> <li>Model three different fault types</li> </ul>	Plate boundaries - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=275">https://www.wasp.edu.au/mod/resource/view.php?id=275</a>  Three types of fault - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=260">https://www.wasp.edu.au/mod/resource/view.php?id=260</a> (we suggest using plasticine or Licorice Allsorts lollies)
Earthquakes	<ul style="list-style-type: none"> <li>Earthquakes can be associated to plate boundaries or stresses within a plate. Watch our animation to learn more</li> <li>Research how earthquakes are monitored and measured</li> </ul>	Earthquakes - <a href="https://www.youtube.com/watch?v=FjXb97qR5C8">https://www.youtube.com/watch?v=FjXb97qR5C8</a>  Locating an earthquake - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=287">https://www.wasp.edu.au/mod/resource/view.php?id=287</a>
Our differentiated planet	<ul style="list-style-type: none"> <li>Explore the history of our understanding of the structure of the Earth</li> <li>Research how this contributes to our understanding of tectonic plate movement</li> </ul>	GIC – our hollow Earth - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=291">https://www.wasp.edu.au/mod/resource/view.php?id=291</a>
Resource extraction and earthquakes	<ul style="list-style-type: none"> <li>Investigate the potential hazards of resource extraction in earthquake prone areas</li> </ul>	Beaconsfield disaster - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=299">https://www.wasp.edu.au/mod/resource/view.php?id=299</a> Basel fault - <a href="https://www.wasp.edu.au/mod/resource/view.php?id=301">https://www.wasp.edu.au/mod/resource/view.php?id=301</a>
Quizzes	<ul style="list-style-type: none"> <li>Test your understanding of this unit by taking our quizzes</li> </ul>	Quizzes - <a href="https://www.wasp.edu.au/mod/page/view.php?id=108">https://www.wasp.edu.au/mod/page/view.php?id=108</a>