



## Physics, Earth and Space Science Learning Matrix

### Curriculum Level 6

#### Learning Area Whakataukī:

*Mā te whakaaro nui e hanga te whare; Big Ideas create the house;  
mā te mātauranga e whakaū. knowledge maintains it.*

Big Ideas			
<b>The Earth and space are dynamic and interact with each other</b>	<b>Inquiry approaches can be applied to explain concepts of the physical world</b>	<b>Interacting processes within and between Earth's systems influence the surface, climate, and life on Earth</b>	<b>Physical phenomena can be explained through physics concepts and communicated using physics conventions</b>
Significant Learning			
<b>At Curriculum Level 6, ākonga will...</b>			
<ul style="list-style-type: none"> <li>• understand that physics, Earth and space science knowledge is continuously developed through collaboration and review</li> <li>• investigate observable interactions between the Sun and the Earth-Moon system</li> <li>• understand that the hydrosphere, biosphere, atmosphere, and geosphere interact in the Earth system</li> <li>• explore how Earth processes interact and influence the surface, climate, and life on Earth</li> <li>• explore the effects of natural and human-induced changes on Earth's systems and consider the implications</li> <li>• interpret representations, critique evidence, and communicate knowledge within physics, Earth and space science contexts</li> <li>• apply inquiry approaches to develop understanding of physics, Earth and space science concepts, including how mātauranga Māori can inform inquiry practice</li> <li>• understand that a range of physics concepts can be used to explain an interaction</li> <li>• explore the nature of energy and force in the physical world</li> <li>• apply appropriate representations of physical phenomena within physics, Earth and space science contexts.</li> </ul>			