MINISTRY OF EDUCATION
TE TĀHUHU O TE MĀTAURANGA

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			
The Earth and space are dynamic and interact with each other	**Inquiry approaches can be applied to explain concepts of the physical world**	**Interacting processes within and between Earth's systems influence the surface, climate, and life on Earth**	**Physical phenomena can be explained through physics concepts and communicated using physics conventions**

Significant Learning

At Curriculum Level 6, ākonga will…

- understand that physics, Earth and space science knowledge is continuously developed through collaboration and review
- investigate observable interactions between the Sun and the Earth-Moon system
- understand that the hydrosphere, biosphere, atmosphere, and geosphere interact in the Earth system
- explore how Earth processes interact and influence the surface, climate, and life on Earth
- explore the effects of natural and human-induced changes on Earth's systems and consider the implications
- interpret representations, critique evidence, and communicate knowledge within physics, Earth and space science contexts
- apply inquiry approaches to develop understanding of physics, Earth and space science concepts, including how mātauranga Māori can inform inquiry practice
- understand that a range of physics concepts can be used to explain an interaction
- explore the nature of energy and force in the physical world
- apply appropriate representations of physical phenomena within physics, Earth and space science contexts.