



Chemistry and Biology Learning Matrix

Curriculum Level 6

Science Whakataukī:

*Mā te whakaaro nui e hanga te whare;
mā te mātauranga e whakaū*

*Big Ideas create the house;
knowledge maintains it.*

Big Ideas			
Chemistry and Biology use a variety of inquiry approaches to gain understandings	Matter and energy flow through biological systems	Properties of matter are determined by interactions of particles	All living things are interconnected
Significant Learning			
At Curriculum Level 6, ākonga will...			
<ul style="list-style-type: none"> recognise differences, as well as similarities, in biological and chemical inquiry practices engage with different perspectives to inform Chemistry and Biology inquiry approaches consider patterns in the ways that chemical reactions rearrange atoms and redistribute energy explore the implications of the conservation of mass explore how the impact of chemicals and their derivatives can change depending on the state, quantity, and location of the chemical species make connections between biological and chemical interactions when nutrients cycle and energy flows explore impacts of disruptions on interrelationships within an ecosystem consider how genetic variation arises and its effect on resilience in biological systems explore ways that breakthroughs in chemical and biological knowledge have furthered understandings in related disciplines explore how new materials can be developed to meet the needs of a sustainable future. 			