Te Poutāhū
Curriculum Centre

Materials and Processing Technology Learning Matrix

Curriculum Level 6
Learning Area Whakataukī:

Kaua e rangiruatia te hāpai o te hoe; e kore tō tātou waka e ū ki uta.	*Do not lift the paddle out of unison; our canoe will never reach the shore.*

Big Ideas			
Authentic contexts encourage fit-for-purpose Materials and Processing Technology outcomes	**Creative problem solving in Materials and Processing Technology develops innovation and resilience**	**Design empathy leads to Materials and Processing Technology outcomes that enhance people's lives**	**Sustainability underpins intervention by design in Materials and Processing Technology practice**

Significant Learning

At Curriculum Level 6, ākonga will…

- understand how mātāpono Māori, tukanga, manaakitanga, kaitiakitanga, rangatiratanga, whanaungatanga, kotahitanga, wairuatanga, and auahatanga can be interlinked and woven together during the development and creation of Materials and Processing Technology outcomes
- understand how the Pacific values of alofa, vā, fonua, vaka, and kuleana are interlinked and woven together during the development and creation of Materials and Processing Technology outcomes
- take into consideration the cultural safety of themselves and others during the development and creation of Materials and Processing Technology outcomes
- understand the importance of the physical safety of themselves and others when using materials, tools, and equipment during the development and creation of Materials and Processing Technology outcomes for end users
- understand the importance of whanaungatanga through wānanga and talanoa to develop outcomes centred around the needs of a person, whānau, or community during the development and creation of Materials and Processing Technology outcomes
- understand the influence of worldviews and society during the development and creation of Materials and Processing Technology outcomes
- understand the influence of Materials and Processing Technology outcomes on society
- understand how 'Ka mua, ka muri' influences reflective practice during the development and creation of Materials and Processing Technology outcomes
- explore the properties of materials during the development and creation of Materials and Processing Technology outcomes
- explore techniques to determine appropriate functional attributes during the development and creation of Materials and Processing Technology outcomes
- use planning, testing, and stakeholder feedback to inform decision-making during the development and creation of Materials and Processing Technology outcomes
- use technological practice to solve real-world problems and realise opportunities during the development and creation of Materials and Processing Technology outcomes
- manipulate, transform, combine, and form materials during the development and creation of Materials and Processing Technology outcomes
- apply sustainable practices during the development and creation of Materials and Processing Technology outcomes.