Achievement Objective Curriculum Level 6 Prepare, rehearse, and perform a range of dances and demonstrate an understanding of the performance requirements of the genres and contexts.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Dance

Strand: Communicating and Interpreting

#### The Arts

Achievement Objective Curriculum Level 6 Describe, explain, and respond to the ways that dance uses elements, devices, structures, performance skills, and production technologies to communicate images, themes, feelings, and moods.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Dance

Strand: Communicating and Interpreting

Achievement Objective Curriculum Level 6 Perform and respond to drama and make critical judgments about how elements, techniques, conventions, and technologies are used to create form and meaning in their own and others' work.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Drama

Strand: Communicating and Interpreting

#### The Arts

Achievement Objective Curriculum Level 6 Prepare, rehearse, interpret, and present performances of music individually and collaboratively, using a range of performance skills and techniques.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music - Sound Arts

Strand: Communicating and Interpreting

Achievement Objective Curriculum Level 6 Reflect on the expressive qualities of music and evaluate their own and others' music, both live and recorded.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music – Sound Arts Strand: Communicating and Interpreting

### The Arts

Achievement Objective Curriculum Level 6 Identify and analyse processes and procedures from established practice that influence ways of communicating meaning.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts

Strand: Communicating and Interpreting

Achievement Objective Curriculum Level 6 Investigate, analyse, and evaluate ideas and interpret artists' intentions in art works.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts

Strand: Communicating and Interpreting

### The Arts

Achievement Objective Curriculum Level 6 Select and use choreographic devices, structures, processes, and technologies to develop and give form to dance ideas.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Dance Strand: Developing Ideas

Achievement Objective Curriculum Level 6 Research, evaluate, and refine ideas in a range of dramatic forms to develop drama.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Drama Strand: Developing Ideas

### The Arts

Achievement Objective Curriculum Level 6 Create, structure, refine, and represent compositions using the elements of music, instruments, technologies, and conventions to express imaginative thinking and personal understandings.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music – Sound Arts Strand: Developing Ideas

Achievement Objective Curriculum Level 6 Reflect on composition processes and presentation conventions.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music – Sound Arts Strand: Developing Ideas

### The Arts

Achievement Objective Curriculum Level 6 Generate, develop, and clarify ideas, showing some understanding of established practice.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts Strand: Developing Ideas

Achievement Objective Curriculum Level 6 Sequence and link ideas systematically as they solve problems in a body of work, using observation and invention with an appropriate selection of materials.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts Strand: Developing Ideas

### The Arts

Achievement Objective Curriculum Level 6 Develop and demonstrate skills in selected dance genres and styles and explore the use of a variety of technologies.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Dance

Strand: Developing Practical Knowledge

Achievement Objective Curriculum Level 6 Select and use techniques, conventions, and technologies in a range of dramatic forms.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Drama

Strand: Developing Practical Knowledge

#### The Arts

Achievement Objective Curriculum Level 6 Apply knowledge of expressive features, stylistic conventions, and technologies through an integration of aural perception and practical and theoretical skills and describe how they are used in a range of music.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music – Sound Arts

Strand: Developing Practical Knowledge

Achievement Objective Curriculum Level 6 Apply knowledge of a range of conventions from established practice, using appropriate processes and procedures.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts

Strand: Developing Practical Knowledge

### The Arts

Achievement Objective Curriculum Level 6 Explore, investigate, and describe the features and backgrounds of a variety of dance genres and styles.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Dance

Strand: Understanding the Arts in Context

Achievement Objective Curriculum Level 6 Investigate the forms and purposes of drama in different historical or contemporary contexts, including New Zealand drama.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Drama

Strand: Understanding the Arts in Context

### The Arts

Achievement Objective Curriculum Level 6 Analyse music from a range of sound environments, styles, and genres, in relation to historical, social, and cultural contexts.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music - Sound Arts

Strand: Understanding the Arts in Context

Achievement Objective Curriculum Level 6 Consider and reflect on the influence of music in their own music making and in their lives.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6

Component: Music – Sound Arts

Strand: Understanding the Arts in Context

### The Arts

Achievement Objective Curriculum Level 6 Investigate and analyse the relationship between the production of art works and the contexts in which they were made, viewed, and valued.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts

Strand: Understanding the Arts in Context

Achievement Objective Curriculum Level 6 Consider and reflect on the contexts underlying their own and others' work.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 6 Component: Visual Arts

Strand: Understanding the Arts in Context

### English

Achievement Objective Curriculum Level 6 Show a developed understanding of ideas, within, across, and beyond texts. indicators:

makes meaning by understanding comprehensive ideas;

makes connections by interpreting ideas within and between texts from a range of contexts; recognises that there may be more than one reading available within a text; makes and supports inferences from texts independently.

Learning Area Cards **DTHM for kaiako** 

Learning area: English Curriculum level: 6

Component: Listening, Reading, and Viewing

Strand: Ideas

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

English

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

Show a developed understanding of how language features are used for effect within and across texts.

indicators:

identifies a range of oral, written, and visual language features and understands their effects; uses an increasing vocabulary to make meaning; understands and interprets how text conventions work together to create meaning and effect:

understands that authors have different voices and styles and identifies and can explain these differences.

Learning area: English Curriculum level: 6

Component: Listening, Reading, and Viewing

Strand: Language features

Integrate sources of information, processes, and strategies purposefully and confidently to identify, form, and express increasingly sophisticated ideas. indicators:

selects and reads texts for enjoyment and personal fulfilment;

recognises, understands, and considers the connections between oral, written, and visual language; integrates sources of information and prior knowledge purposefully and confidently to make sense of increasingly varied and complex texts; selects and uses appropriate processing and comprehension strategies with confidence; thinks critically about texts with understanding and confidence;

monitors, self evaluates, and describes progress, articulating learning with confidence.

Learning area: English Curriculum level: 6

Component: Listening, Reading, and Viewing

Strand: Processes and strategies

Achievement Objective Curriculum Level 6 Show a developed understanding of how texts are shaped for different purposes and audiences.

indicators:

recognises, understands, and considers how texts are constructed for a range of purposes, audiences, and situations;

identifies particular points of view within texts and recognises that texts can position a reader; evaluates the reliability and usefulness of texts with confidence.

Learning Area Cards

DTHM for kaiako

Learning area: English Curriculum level: 6

Component: Listening, Reading, and Viewing

Strand: Purposes and audiences

### English

Achievement Objective Curriculum Level 6 Show a developed understanding of a range of structures.

indicator:

identifies and understands the characteristics and conventions of a range of text forms and considers how they contribute to and affect text meaning.

Learning Area Cards **DTHM for kaiako** 

Learning area: English Curriculum level: 6

Component: Listening, Reading, and Viewing

Strand: Structure

Achievement Objective Curriculum Level 6 Select, develop, and communicate connected ideas on a range of topics.

indicators:

develops and communicates comprehensive ideas, information, and understandings; works towards creating coherent, planned whole texts by adding details to ideas or making links to other ideas and details;

ideas show an understanding and awareness of a range of dimensions or viewpoints.

Learning Area Cards **DTHM for kaiako** 

Learning area: English Curriculum level: 6

Component: Speaking, Writing, Presenting

Strand: Ideas

### English

Achievement Objective
Curriculum Level 6

Select and use a range of language features appropriately for a variety of effects. indicators:

uses a wide range of oral, written, and visual language features with control to create meaning and effect and to sustain interest; uses an increasing vocabulary to communicate precise meaning;

uses a wide range of text conventions, including grammatical and spelling conventions, appropriately, effectively, and with accuracy.

Learning Area Cards

DTHM for kaiako

Learning area: English Curriculum level: 6

Component: Speaking, Writing, Presenting

Strand: Language features

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

English

Achievement Objective Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Integrate sources of information, processes, and strategies purposefully and confidently to identify, form, and express increasingly sophisticated ideas.

uses an increasing understanding of the connections between oral, written, and visual language when creating texts;

creates a range of increasingly varied and complex texts by integrating sources of information and processing strategies;

seeks feedback and makes changes to texts to improve clarity, meaning, and effect;

is reflective about the production of own texts: monitors and self

evaluates progress, articulating learning with confidence.

Learning area: English Curriculum level: 6

Component: Speaking, Writing, Presenting

Strand: Processes and strategies

Show a developed understanding of how to shape texts for different audiences and purposes.

indicators:

constructs a range of texts that demonstrate an understanding of purpose and audience through deliberate choice of content, language, and text form:

conveys and sustains personal voice where appropriate.

Learning area: English Curriculum level: 6

Component: Speaking, Writing, Presenting

Strand: Purposes and audiences

Achievement Objective Curriculum Level 6 Organise texts, using a range of appropriate, effective structures.

indicators:

achieves a sense of coherence and wholeness when constructing texts;

organises and develops ideas and information for a particular purpose or effect, using the characteristics and conventions of a range of text forms.

Learning Area Cards

DTHM for kaiako

Learning area: English Curriculum level: 6

Component: Speaking, Writing, Presenting

Strand: Structure

# Health and Physical Education

Achievement Objective Curriculum Level 6 Advocate for the development of services and facilities to meet identified needs in the school and the community.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Healthy Communities and

Environments

Strand: Community resources

Achievement Objective Curriculum Level 6 Investigate the roles and the effectiveness of local, national, and international organisations that promote well-being and environmental care.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Healthy Communities and

Environments

Strand: People and the environment

## Health and Physical Education

Achievement Objective Curriculum Level 6 Compare and contrast personal values and practices with policies, rules, and laws and investigate how the latter contribute to safety in the school and community.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Healthy Communities and

Environments

Strand: Rights, responsibilities, and laws

Achievement Objective Curriculum Level 6 Analyse societal influences that shape community health goals and physical activity patterns.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Healthy Communities and

Environments

Strand: Societal attitudes and values

# Health and Physical Education

Achievement Objective Curriculum Level 6 Demonstrate understanding and affirmation of people's diverse social and cultural needs and practices when participating in physical activities.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Movement Concepts and Motor Skills Strand: Challenges and social and cultural factors

Achievement Objective Curriculum Level 6 Acquire, apply, and refine specialised motor skills by using the principles of motor skill learning.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Movement Concepts and Motor Skills Strand: Movement skills

# Health and Physical Education

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

Demonstrate and examine responsible attitudes in challenging physical situations.

Learning area: Health and Physical Education Curriculum level: 6

Component: Movement Concepts and Motor Skills

Strand: Positive attitudes

Achievement Objective Curriculum Level 6 Apply scientific and technological knowledge and resources to enhance physical abilities in a range of environments.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Movement Concepts and Motor Skills Strand: Science and technology

# Health and Physical Education

Achievement Objective Curriculum Level 6 Investigate and understand reasons for the choices people make that affect their well-being and explore and evaluate options and consequences.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Personal Health and Physical

Development

Strand: Personal growth and development

Achievement Objective Curriculum Level 6 Demonstrate an understanding of factors that contribute to personal identity and celebrate individuality and affirm diversity.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education

Curriculum level: 6

Component: Personal Health and Physical

Development

Strand: Personal identity

Health and Physical Education

Achievement Objective Curriculum Level 6 Choose and maintain ongoing involvement in appropriate physical activities and examine factors influencing their participation.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education

Curriculum level: 6

Component: Personal Health and Physical

Development

Strand: Regular physical activity

Achievement Objective Curriculum Level 6 Demonstrate understanding of responsible behaviours required to ensure that challenges and risks are managed safely in physical and social environments.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Personal Health and Physical

Development

Strand: Safety management

## Health and Physical Education

Achievement Objective Curriculum Level 6 Plan and evaluate strategies recognising their own and other people's rights and responsibilities to avoid or minimise risks in social situations.

Learning Area Cards **DTHM for kaiako** 

Learning area: Health and Physical Education Curriculum level: 6

Component: Relationships with Other People Strand: Identity, sensitivity, and respect

Achievement Objective Curriculum Level 6 Plan strategies and demonstrate interpersonal skills to respond to challenging situations appropriately.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education Curriculum level: 6

Component: Relationships with Other People Strand: Interpersonal skills

## Health and Physical Education

Achievement Objective Curriculum Level 6 Demonstrate an understanding of how individuals and groups affect relationships by influencing people's behaviour, beliefs, decisions, and sense of self-worth.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education Curriculum level: 6

Component: Relationships with Other People Strand: Relationships

### Learning Languages

Achievement Objective
Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Express and respond to personal ideas and opinions.

Learning area: Learning Languages

Curriculum level: 6

Component: Communication

Strand: Managing self and relating to others

### Learning Languages

Achievement Objective
Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Communicate appropriately in different situations.

Learning area: Learning Languages

Curriculum level: 6

Component: Communication

Strand: Participating and contributing in

communities

### Learning Languages

Achievement Objective Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Communicate information, ideas, and opinions through different text types.

Learning area: Learning Languages Curriculum level: 6

Component: Communication

Strand: Selecting and using language, symbols, and

texts to communicate

### Learning Languages

Achievement Objective Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Understand ways in which the target culture(s) is (are) organised for different purposes.

Learning area: Learning Languages Curriculum level: 6 Component: Cultural Knowledge

Strand: N/A

### Learning Languages

Achievement Objective Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Understand ways in which the target language is organised for different purposes.

Learning area: Learning Languages Curriculum level: 6

Component: Language Knowledge Strand: N/A

### Mathematics and Statistics

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

Measure at a level of precision appropriate to the task.

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Measurement

### Mathematics and Statistics

Achievement Objective Curriculum Level 6 Apply the relationships between units in the metric system, including the units for measuring different attributes and derived measures.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Measurement

Mathematics and Statistics

Achievement Objective Curriculum Level 6 Calculate volumes, including prisms, pyramids, cones, and spheres, using formulae.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Measurement

## Mathematics and Statistics

Achievement Objective Curriculum Level 6 Use a co-ordinate plane or map to show points in common and areas contained by two or more loci.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics Curriculum level: 6

Component: Geometry and Measurement Strand: Position and orientation

### Mathematics and Statistics

Achievement Objective Curriculum Level 6

Learning Area Cards

DTHM for kaiako

Deduce and apply the angle properties related to circles.

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Shape

## Mathematics and Statistics

Achievement Objective Curriculum Level 6 Recognise when shapes are similar and use proportional reasoning to find an unknown length.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics Curriculum level: 6

Component: Geometry and Measurement Strand: Shape

## Mathematics and Statistics

Achievement Objective Curriculum Level 6 Use trigonometric ratios and Pythagoras' theorem in two and three dimensions.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Shape

Compare and apply single and multiple transformations.

## Mathematics and Statistics

Achievement Objective Curriculum Level 6

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Transformation

Learning Area Cards

DTHM for kaiako

Mathematics and Statistics

Achievement Objective Curriculum Level 6 Analyse symmetrical patterns by the transformations used to create them.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Geometry and Measurement

Strand: Transformation

### Mathematics and Statistics

Achievement Objective Curriculum Level 6 Form and solve linear equations and inequations, quadratic and simple exponential equations, and simultaneous equations with two unknowns.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra Strand: Equations and expressions

## Mathematics and Statistics

Achievement Objective Curriculum Level 6 Apply direct and inverse relationships with linear proportions.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra

Strand: Number strategies and knowledge

Extend powers to include integers and fractions.

## Mathematics and Statistics

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra

Strand: Number strategies and knowledge

## Mathematics and Statistics

Achievement Objective Curriculum Level 6

Learning Area Cards **DTHM for kaiako** 

Apply everyday compounding rates.

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra

Strand: Number strategies and knowledge

Find optimal solutions, using numerical approaches.

## Mathematics and Statistics

Achievement Objective Curriculum Level 6

Curri

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra

Strand: Number strategies and knowledge

Learning Area Cards

DTHM for kaiako

### Mathematics and Statistics

Achievement Objective Curriculum Level 6 Generalise the properties of operations with rational numbers, including the properties of exponents.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra Strand: Patterns and relationships

### Mathematics and Statistics

Achievement Objective Curriculum Level 6 Relate graphs, tables, and equations to linear, quadratic, and simple exponential relationships found in number and spatial patterns.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra Strand: Patterns and relationships

## Mathematics and Statistics

Achievement Objective Curriculum Level 6 Relate rate of change to the gradient of a graph.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 6

Component: Number and Algebra Strand: Patterns and relationships

### Mathematics and Statistics

Achievement Objective Curriculum Level 6 Investigate situations that involve elements of chance: comparing discrete theoretical distributions and experimental distributions, appreciating the role of sample size; calculating probabilities in discrete situations.

Learning Area Cards **DTHM for kaiako** 

Learning area: Mathematics and Statistics

Curriculum level: 6 Component: Statistics Strand: Probability

### Mathematics and Statistics

Achievement Objective Curriculum Level 6 Plan and conduct investigations using the statistical enquiry cycle:

justifying the variables and measures used; managing sources of variation, including through the use of random sampling; Identifying and communicating features in context (trends, relationships between variables, and differences within and between, distributions), using multiple displays; making informal inferences about populations from sample data;

justifying findings, using displays and measures.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 6 Component: Statistics

Strand: Statistical investigation

# Mathematics and Statistics

Achievement Objective Curriculum Level 6 Evaluate statistical reports in the media by relating the displays, statistics, processes, and probabilities used, to the claims made.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 6 Component: Statistics Strand: Statistical literacy

## Science

Achievement Objective Curriculum Level 6 Investigate the impact of natural events and human actions on a New Zealand ecosystem.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Living World Strand: Ecology

Achievement Objective Curriculum Level 6 Explore patterns in the inheritance of genetically controlled characteristics.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Living World Strand: Evolution

## Science

Achievement Objective Curriculum Level 6 Explain the importance of variation within a changing environment.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Living World Strand: Evolution

Achievement Objective Curriculum Level 6 Relate key structural features and functions to the life processes of plants, animals, and microorganisms and investigate environmental factors that affect these processes.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Living World Strand: Life processes

## Science

Achievement Objective Curriculum Level 6 Investigate how chemical knowledge is used in a technological application of chemistry.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Material World Strand: Chemistry and society

Achievement Objective Curriculum Level 6 dentify patterns and trends in the properties of a range of groups of substances, for example, acids and bases, metals, metal compounds, and hydrocarbons.

Learning Area Cards

DTHM for kaiako

Learning area: Science Curriculum level: 6 Component: Material World

Strand: Properties and changes of matter

## Science

Achievement Objective Curriculum Level 6 Explore factors that affect chemical processes.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Material World

Strand: Properties and changes of matter

Achievement Objective Curriculum Level 6 Distinguish between atoms, molecules, and ions (includes covalent and ionic bonding).

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Material World

Strand: The structure of matter

Link atomic structure to the

organisation of the periodic table.

## Science

Achievement Objective Curriculum Level 6

> Learning area: Science Curriculum level: 6

Component: Material World Strand: The structure of matter

Learning Area Cards **DTHM for kaiako** 

Achievement Objective Curriculum Level 6 Use particle theory to explain factors that affect chemical processes.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Material World Strand: The structure of matter

# Science

Achievement Objective Curriculum Level 6 Use a wider range of science vocabulary, symbols, and conventions.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science
Curriculum level: 6
Component: Nature of Science
Strand: Communicating in science

Achievement Objective Curriculum Level 6 Apply their understandings of science to evaluate both popular and scientific texts (including visual and numerical literacy).

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Nature of Science Strand: Communicating in science

## Science

Achievement Objective Curriculum Level 6 Develop and carry out more complex investigations, including using models.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Nature of Science Strand: Investigating in science

Achievement Objective Curriculum Level 6 Show an increasing awareness of the complexity of working scientifically, including recognition of multiple variables.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Nature of Science Strand: Investigating in science

## Science

Achievement Objective Curriculum Level 6 Begin to evaluate the suitability of the investigative methods chosen.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Nature of Science Strand: Investigating in science

Achievement Objective Curriculum Level 6 Develop an understanding of socioscientific issues by gathering relevant scientific information in order to draw evidence-based conclusions and to take action where appropriate.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Nature of Science Strand: Participating and contributing

## Science

Achievement Objective Curriculum Level 6 Understand that scientists' investigations are informed by current scientific theories and aim to collect evidence that will be interpreted through processes of logical argument.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Nature of Science Strand: Understanding about science

Achievement Objective Curriculum Level 6 Investigate trends and relationships in physical phenomena (in the areas of mechanics, electricity, electromagnetism, heat, light and waves, and atomic and nuclear physics).

Learning Area Cards

DTHM for kaiako

Learning area: Science Curriculum level: 6 Component: Physical World

Strand: Physical inquiry and physics concepts

## Science

Achievement Objective Curriculum Level 6 Demonstrate an understanding of physical phenomena and concepts by explaining and solving questions and problems that relate to straightforward situations.

Learning Area Cards

DTHM for kaiako

Learning area: Science
Curriculum level: 6

Component: Physical World

Strand: Physical inquiry and physics concepts

Achievement Objective Curriculum Level 6 Investigate how physics knowledge is used in a technological or biological application.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6 Component: Physical World Strand: Using physics

## Science

Achievement Objective Curriculum Level 6 Investigate the interactions between the solar, lunar, and Earth cycles and the effect of these on Earth.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science
Curriculum level: 6

Component: Planet Earth and Beyond Strand: Astronomical systems

Achievement Objective Curriculum Level 6 Investigate the external and internal processes that shape and change the surface features of New Zealand.

Learning Area Cards

DTHM for kaiako

Learning area: Science Curriculum level: 6

Component: Planet Earth and Beyond

Strand: Earth systems

## Science

Achievement Objective Curriculum Level 6 Develop an understanding of how the geosphere, hydrosphere, atmosphere, and biosphere interact to cycle carbon around Earth.

Learning Area Cards **DTHM for kaiako** 

Learning area: Science Curriculum level: 6

Component: Planet Earth and Beyond

Strand: Interacting systems

Achievement Objective Curriculum Level 6 Understand how the different sectors of the New Zealand economy are interdependent.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 6 Component: Economics

Strand: N/A

## **Social Sciences**

Achievement Objective Curriculum Level 6 Understand how, as a result of scarcity, consumers, producers, and government make choices that affect New Zealand society.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences Curriculum level: 6 Component: Economics Strand: N/A

Achievement Objective Curriculum Level 6 Understand how people interact with natural and cultural environments and that this interaction has consequences.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 6 Component: Geography

Strand: N/A

## **Social Sciences**

Achievement Objective Curriculum Level 6 Understand that natural and cultural environments have particular characteristics and how environments are shaped by processes that create spatial patterns.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences Curriculum level: 6 Component: Geography

Strand: N/A

Achievement Objective Curriculum Level 6 Understand how the causes and consequences of past events that are of significance to New Zealanders shape the lives of people and society.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 6 Component: History

Strand: N/A

## **Social Sciences**

Achievement Objective Curriculum Level 6 Understand how people's perspectives on past events that are of significance to New Zealanders differ.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences Curriculum level: 6 Component: History

Strand: N/A

Achievement Objective Curriculum Level 6 Understand how cultures adapt and change and that this has consequences for society.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 6 Component: Social Studies

Strand: N/A

## **Social Sciences**

Achievement Objective Curriculum Level 6 Understand how individuals, groups, and institutions work to promote social justice and human rights.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences Curriculum level: 6 Component: Social Studies Strand: N/A

Achievement Objective Curriculum Level 6 Understand the role and nature of evidence and reasoning when managing risk through technological modelling.

Learning Area Cards **DTHM for kaiako** 

Learning area: Technology Curriculum level: 6

Component: Technological Knowledge Strand: Technological modelling

# Technology

Achievement Objective Curriculum Level 6 Understand how materials are formed, manipulated, and transformed in different ways, depending on their properties, and understand the role of material evaluation in determining suitability for use in product development.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Technological Knowledge Strand: Technological products

Achievement Objective Curriculum Level 6 Understand the implications of subsystems for the design, development, and maintenance of technological systems.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Technological Knowledge

Strand: Technological systems

# Technology

Achievement Objective Curriculum Level 6 Understand that some technological outcomes can be perceived as both product and system. Understand how these outcomes impact on other outcomes and practices and on people's views of themselves and possible futures.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Nature of Technology

Strand: Characteristics of technological outcomes

Achievement Objective Curriculum Level 6 Understand the interdisciplinary nature of technology and the implications of this for maximising possibilities through collaborative practice.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Nature of Technology Strand: Characteristics of technology

# Technology

Achievement Objective Curriculum Level 6 Justify the nature of an intended outcome in relation to the need or opportunity and justify specifications in terms of key stakeholder feedback and wider community considerations.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Technological Practice

Strand: Brief development

Achievement Objective Curriculum Level 6 Critically analyse their own and others' outcomes to inform the development of ideas for feasible outcomes. Undertake ongoing experimentation and functional modelling, taking account of stakeholder feedback and trialling in the physical and social environments. Use the information gained to select, justify, and develop a final outcome. Evaluate this outcome's fitness for purpose against the brief and justify the evaluation using feedback from stakeholders.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Technological Practice

Strand: Outcome development and evaluation

# Technology

Achievement Objective Curriculum Level 6 Critically analyse their own and others' past and current planning practices in order to make informed selection and effective use of planning tools. Use these to support and justify ongoing planning that will see the development of an outcome through to completion.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 6

Component: Technological Practice
Strand: Planning for practice