Achievement Objective Curriculum Level 7 Apply rehearsal and performance skills to a range of dances, using appropriate techniques and expression to communicate specific intentions.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Dance

Strand: Communicating and Interpreting

The Arts

Achievement Objective Curriculum Level 7 Analyse, explain, and discuss aspects of performance and choreography in a range of dance works.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Dance

Strand: Communicating and Interpreting

Achievement Objective Curriculum Level 7 Rehearse and perform works in a range of dramatic forms.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Drama

Strand: Communicating and Interpreting

The Arts

Achievement Objective Curriculum Level 7 Respond to and make critical judgments about rehearsal processes and performances.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Drama

Strand: Communicating and Interpreting

Achievement Objective Curriculum Level 7 Prepare, rehearse, present, record, and evaluate sustained performances of music, individually and collaboratively, that demonstrate interpretive understandings.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music – Sound Arts

Strand: Communicating and Interpreting

The Arts

Achievement Objective Curriculum Level 7 Analyse and evaluate the expressive qualities of music and production processes to inform interpretations of music.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music - Sound Arts

Strand: Communicating and Interpreting

Achievement Objective Curriculum Level 7 Research and analyse how art works are constructed and presented to communicate meanings.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Visual Arts

Strand: Communicating and Interpreting

respond to art works.

Use critical analysis to interpret and

The Arts

Achievement Objective Curriculum Level 7

> Learning area: The Arts Curriculum level: 7 Component: Visual Arts

Strand: Communicating and Interpreting

Learning Area Cards

DTHM for kaiako

Achievement Objective Curriculum Level 7 Choreograph solo and group dance works, using choreographic processes, devices, structures, and technologies to communicate choreographic intentions.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Dance Strand: Developing Ideas

The Arts

Achievement Objective Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Generate, plan, and record choreographic ideas and processes.

Learning area: The Arts Curriculum level: 7 Component: Dance Strand: Developing Ideas

Achievement Objective Curriculum Level 7 Research, critically evaluate, and refine ideas to develop drama in specific dramatic forms.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Drama Strand: Developing Ideas

The Arts

Achievement Objective Curriculum Level 7 Create, structure, refine, and represent compositions and musical arrangements, using technical and musical skills and technologies to express imaginative thinking and personal understandings.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music – Sound Arts Strand: Developing Ideas

Achievement Objective Curriculum Level 7 Reflect on and evaluate composition processes and presentation conventions.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music – Sound Arts Strand: Developing Ideas

The Arts

Achievement Objective Curriculum Level 7 Generate, analyse, clarify, and extend ideas in a selected field related to established practice.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Visual Arts Strand: Developing Ideas

Achievement Objective Curriculum Level 7 Use a systematic approach to the development of ideas in a body of work.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Visual Arts Strand: Developing Ideas

The Arts

Achievement Objective Curriculum Level 7 Extend skills in the vocabulary, practices, and technologies of selected dance genres and styles.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Dance

Strand: Developing Practical Knowledge

Achievement Objective Curriculum Level 7 Select and refine the use of techniques, conventions, and technologies in specific dramatic forms.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Drama

Strand: Developing Practical Knowledge

The Arts

Achievement Objective Curriculum Level 7 Apply knowledge of expressive features, stylistic conventions, and technologies through an integration of aural perception and practical and theoretical skills and analyse how they are used in a range of music.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music – Sound Arts Strand: Developing Practical Knowledge

Achievement Objective Curriculum Level 7 Apply understanding from research into a range of established practice to extend skills for particular artmaking purposes, using appropriate processes and procedures in selected fields.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Visual Arts

Strand: Developing Practical Knowledge

The Arts

Achievement Objective Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Extend skills, in a range of materials, techniques, and technologies.

Learning area: The Arts Curriculum level: 7 Component: Visual Arts

Strand: Developing Practical Knowledge

Achievement Objective Curriculum Level 7 Investigate and evaluate the effects of individual, social, cultural, and technological influences on the development of a variety of dance genres and styles.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Dance

Strand: Understanding the Arts in Context

The Arts

Achievement Objective Curriculum Level 7 Research the purposes of production, performance, and technologies of drama in a range of contexts, including New Zealand drama.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Drama

Strand: Understanding the Arts in Context

Achievement Objective Curriculum Level 7 Explore how drama reflects our cultural diversity.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Drama

Strand: Understanding the Arts in Context

The Arts

Achievement Objective Curriculum Level 7 Research and analyse music from a range of sound environments, styles, and genres, in relation to historical, social, and cultural contexts, considering the impact on music making and production.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music - Sound Arts

Strand: Understanding the Arts in Context

Achievement Objective Curriculum Level 7 Apply their understandings of the expressive qualities of music from a range of contexts to a consideration of their influence on their own music practices.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7

Component: Music – Sound Arts

Strand: Understanding the Arts in Context

The Arts

Achievement Objective Curriculum Level 7 Research and analyse the influences of contexts on the characteristics and production of art works.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Visual Arts

Strand: Understanding the Arts in Context

Achievement Objective Curriculum Level 7 Research and analyse the influence of relevant contexts on their own work.

Learning Area Cards

DTHM for kaiako

Learning area: The Arts Curriculum level: 7 Component: Visual Arts

Strand: Understanding the Arts in Context

English

Achievement Objective Curriculum Level 7 Show a discriminating understanding of ideas, within, across, and beyond texts.

makes meaning by understanding increasingly sophisticated ideas;

makes connections by analysing ideas within and between texts from a range of contexts; understands that there may be multiple readings available within a text; makes and supports inferences from texts independently.

Learning Area Cards

DTHM for kaiako

Learning area: English Curriculum level: 7

Component: Listening, Reading, and Viewing

Strand: Ideas

Achievement Objective Curriculum Level 7

Learning Area Cards **DTHM for kaiako**

English

Achievement Objective Curriculum Level 7

Learning Area Cards

DTHM for kaiako

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

indicators:

identifies a range of increasingly sophisticated oral, written, and visual language features and understands their effects;

uses an increasing vocabulary to make meaning; understands and analyses how text conventions work together to create meaning and effect; understands that authors have different voices and styles and appreciates these differences.

Learning area: English Curriculum level: 7

Component: Listening, Reading, and Viewing

Strand: Language features

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

indicators:

selects and reads texts for enjoyment and personal fulfilment:

recognises, understands, and appreciates the connections between oral, written, and visual language;

integrates sources of information and prior knowledge purposefully, confidently, and precisely to make sense of increasingly varied and complex texts;

selects and uses appropriate processing and comprehension strategies with confidence and discrimination;

thinks critical

Learning area: English Curriculum level: 7

Component: Listening, Reading, and Viewing

Strand: Processes and strategies

Achievement Objective Curriculum Level 7

Learning Area Cards **DTHM for kaiako**

English

Achievement Objective Curriculum Level 7

Learning Area Cards **DTHM for kaiako**

Show a discriminating understanding of how texts are shaped for different purposes and audiences.

indicators:

recognises, understands, and appreciates how texts are constructed for a range of intentions and situations;

identifies particular points of view within texts and understands that texts can position a reader:

evaluates the reliability and usefulness of texts.

Learning area: English Curriculum level: 7

Component: Listening, Reading, and Viewing

Strand: Purposes and audiences

Show a discriminating understanding of a range of structures.

indicator:

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

Learning area: English Curriculum level: 7

Component: Listening, Reading, and Viewing

Strand: Structure

Achievement Objective Curriculum Level 7

Learning Area Cards

DTHM for kaiako

English

Achievement Objective
Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Select, develop, and communicate sustained ideas on a range of topics.

indicators:

develops, communicates, and sustains increasingly sophisticated ideas, information, and understandings;

creates coherent, planned whole texts by adding details to ideas or making links to other ideas and details:

ideas show depth of thought and awareness of a range of dimensions or viewpoints.

Learning area: English Curriculum level: 7

Component: Speaking, Writing, Presenting

Strand: Ideas

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

uses a wide range of oral, written, and visual language features fluently and 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: English Curriculum level: 7

Component: Speaking, Writing, Presenting

Strand: Language features

Achievement Objective Curriculum Level 7

Learning Area Cards **DTHM for kaiako**

English

Achievement Objective Curriculum Level 7

Learning Area Cards

DTHM for kaiako

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

indicators:

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

creates a range of increasingly coherent, 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: 7

Component: Speaking, Writing, Presenting

Strand: Processes and strategies

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

indicators:

constructs a range of texts that demonstrate an understanding and appreciation 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: 7

Component: Speaking, Writing, Presenting

Strand: Purposes and audiences

Achievement Objective Curriculum Level 7 Organise texts, using a range of appropriate, coherent, and effective structures.

indicator:

organises

Learning Area Cards

DTHM for kaiako

Learning area: English Curriculum level: 7

Component: Speaking, Writing, Presenting

Strand: Structure

Health and Physical Education

Achievement Objective Curriculum Level 7

Learning area: Health and Physical Education
Curriculum level: 7

Component: Healthy Communities and

Environments

Strand: Community resources

Learning Area Cards **DTHM for kaiako**

Evaluate school and community initiatives that promote young people's well-being and develop an action plan to instigate or support these.

Achievement Objective Curriculum Level 7 Analyse ways in which the environment and the well-being of a community are affected by population pressure and technological processes.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Healthy Communities and

Environments

Strand: People and the environment

Health and Physical Education

Achievement Objective Curriculum Level 7 Evaluate laws, policies, practices, and regulations in terms of their contribution to social justice at school and in the wider community.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Healthy Communities and

Environments

Strand: Rights, responsibilities, and laws

Achievement Objective
Curriculum Level 7

Analyse ways in which events and social organisations promote healthy communities and evaluate the effects they have.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education Curriculum level: 7

Component: Healthy Communities and

Environments

Strand: Societal attitudes and values

Health and Physical Education

Achievement Objective Curriculum Level 7 Appraise, adapt, and use physical activities to ensure that specific social and cultural needs are met.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

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

Achievement Objective Curriculum Level 7 Appraise specialised motor skills and adapt them to extend physical competence and recreational opportunities.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Movement Concepts and Motor Skills Strand: Movement skills

Health and Physical Education

Achievement Objective Curriculum Level 7 Adapt skills and appraise responsible attitudes in challenging physical situations and unfamiliar environments.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education Curriculum level: 7

Component: Movement Concepts and Motor Skills

Strand: Positive attitudes

Achievement Objective Curriculum Level 7 Apply relevant scientific, technological, and environmental knowledge and use appropriate resources to improve performance in a specialised physical activity.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

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

Health and Physical Education

Achievement Objective Curriculum Level 7 Assess their health needs and identify strategies to ensure personal well-being across their lifespan.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education Curriculum level: 7

Component: Personal Health and Physical

Development

Strand: Personal growth and development

Achievement Objective Curriculum Level 7 Critically evaluate societal attitudes, values, and expectations that affect people's awareness of their personal identity and sense of self-worth in a range of life situations.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Personal Health and Physical

Development

Strand: Personal identity

Health and Physical Education

Achievement Objective
Curriculum Level 7

Plan, implement, and evaluate a physical activity programme and examine factors used to justify physical activity as a means of enhancing well-being.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Personal Health and Physical

Development

Strand: Regular physical activity

Achievement Objective Curriculum Level 7 Analyse the difference between perceived and residual risks in physical and social environments and develop skills and behaviour for managing responsible action.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Personal Health and Physical

Development

Strand: Safety management

Health and Physical Education

Achievement Objective
Curriculum Level 7

Analyse the beliefs, attitudes, and practices that reinforce stereotypes and role expectations, identifying ways in which these shape people's choices at individual, group, and societal levels.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

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

Achievement Objective Curriculum Level 7 Evaluate information, make informed decisions, and use interpersonal skills effectively to manage conflict, competition, and change in relationships.

Learning Area Cards

DTHM for kaiako

Learning area: Health and Physical Education Curriculum level: 7

Component: Relationships with Other People Strand: Interpersonal skills

Health and Physical Education

Achievement Objective Curriculum Level 7 Analyse the nature and benefits of meaningful interpersonal relationships.

Learning Area Cards **DTHM for kaiako**

Learning area: Health and Physical Education Curriculum level: 7

Component: Relationships with Other People Strand: Relationships

Achievement Objective
Curriculum Level 7

Explore the views of others, developing and sharing personal perspectives.

Learning Area Cards

DTHM for kaiako

Learning area: Learning Languages

Curriculum level: 7

Component: Communication

Strand: Managing self and relating to others

Learning Languages

Achievement Objective
Curriculum Level 7

Engage in sustained interaction and produce extended text.

Learning Area Cards

DTHM for kaiako

Learning area: Learning Languages

Curriculum level: 7

Component: Communication

Strand: Participating and contributing in

communities

Achievement Objective
Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Communicate information, ideas, and opinions through increasingly complex and varied texts.

Learning area: Learning Languages Curriculum level: 7

Component: Communication

Strand: Selecting and using language, symbols, and texts to communicate

Learning Languages

Achievement Objective
Curriculum Level 7

Learning Area Cards

DTHM for kaiako

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

Learning area: Learning Languages Curriculum level: 7 Component: Cultural Knowledge

Strand: N/A

Achievement Objective
Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Analyse how the use of the target language expresses cultural meanings.

Learning area: Learning Languages Curriculum level: 7

Component: Cultural Knowledge

Strand: N/A

Learning Languages

Achievement Objective
Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Analyse ways in which the target language is organised in different texts and for different purposes.

Learning area: Learning Languages Curriculum level: 7 Component: Language Knowledge

Strand: N/A

Achievement Objective
Curriculum Level 7

Learning Area Cards

DTHM for kaiako

Explore how linguistic meaning is conveyed across languages.

Learning area: Learning Languages Curriculum level: 7

Component: Language Knowledge

Strand: N/A

Mathematics and Statistics

Achievement Objective Curriculum Level 7

Learning Area Cards **DTHM for kaiako**

Sketch the graphs of functions and their gradient functions and describe the relationship between these graphs.

Learning area: Mathematics and Statistics

Curriculum level: 7

Component: Mathematics

Strand: Calculus

Mathematics and Statistics

Achievement Objective Curriculum Level 7 Apply differentiation and antidifferentiation techniques to polynomials.

Learning Area Cards **DTHM for kaiako**

Learning area: Mathematics and Statistics

Curriculum level: 7 Component: Mathematics

Strand: Calculus

Mathematics and Statistics

Achievement Objective Curriculum Level 7 Manipulate rational, exponential, and logarithmic algebraic expressions.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 7

Component: Mathematics

Strand: Equations and expressions

Form and use linear, quadratic, and simple trigonometric equations.

Mathematics and Statistics

Achievement Objective Curriculum Level 7

Learning area: Mathematics and Statistics

Curriculum level: 7

Component: Mathematics

Strand: Equations and expressions

Learning Area Cards

DTHM for kaiako

Mathematics and Statistics

Achievement Objective Curriculum Level 7 Form and use pairs of simultaneous equations, one of which may be non-linear.

Learning Area Cards **DTHM for kaiako**

Learning area: Mathematics and Statistics

Curriculum level: 7

Component: Mathematics

Strand: Equations and expressions

Apply co-ordinate geometry techniques to points and lines.

Mathematics and Statistics

Achievement Objective Curriculum Level 7

Learning area: Mathematics and Statistics

Curriculum level: 7 Component: Mathematics

Strand: Patterns and relationships

Learning Area Cards **DTHM for kaiako**

Mathematics and Statistics

Achievement Objective Curriculum Level 7 Display the graphs of linear and non-linear functions and connect the structure of the functions with their graphs.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 7

Component: Mathematics

Strand: Patterns and relationships

Use arithmetic and geometric sequences and series.

Mathematics and Statistics

Achievement Objective Curriculum Level 7

Learning area: Mathematics and Statistics

Curriculum level: 7 Component: Mathematics

Strand: Patterns and relationships

Learning Area Cards **DTHM for kaiako**

Mathematics and Statistics

Achievement Objective
Curriculum Level 7

Apply trigonometric relationships, including the sine and cosine rules, in two and three dimensions.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 7

Component: Mathematics

Strand: Patterns and relationships

Choose appropriate networks to find optimal solutions.

Mathematics and Statistics

Achievement Objective Curriculum Level 7

Learning area: Mathematics and Statistics

Curriculum level: 7
Component: Mathematics

Strand: Patterns and relationships

Learning Area Cards

DTHM for kaiako

Mathematics and Statistics

Achievement Objective Curriculum Level 7 Investigate situations that involve elements of chance:

comparing theoretical continuous distributions, such as the normal distribution, with experimental distributions;

calculating probabilities, using such tools as two-way tables, tree diagrams, simulations, and technology.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 7 Component: Statistics Strand: Probability

Mathematics and Statistics

Achievement Objective Curriculum Level 7

Learning Area Cards **DTHM for kaiako**

Carry out investigations of phenomena, using the statistical enquiry cycle:

conducting surveys that require random sampling techniques, conducting experiments, and using existing data sets;

evaluating the choice of measures for variables and the sampling and data collection methods used:

using relevant contextual knowledge, exploratory data analysis, and statistical inference.

Learning area: Mathematics and Statistics

Curriculum level: 7
Component: Statistics

Strand: Statistical investigation

Mathematics and Statistics

Achievement Objective Curriculum Level 7

> Learning area: Mathematics and Statistics Curriculum level: 7

Component: Statistics

Strand: Statistical investigation

Learning Area Cards **DTHM for kaiako**

Make inferences from surveys and experiments:

making informal predictions, interpolations, and extrapolations; using sample statistics to make point estimates of population parameters;

recognising the effect of sample size on the variability of an estimate.

Mathematics and Statistics

Achievement Objective Curriculum Level 7 Evaluate statistically based reports: interpreting risk and relative risk; identifying sampling and possible non-sampling errors in surveys, including polls.

Learning Area Cards

DTHM for kaiako

Learning area: Mathematics and Statistics

Curriculum level: 7 Component: Statistics Strand: Statistical literacy

Science

Achievement Objective Curriculum Level 7 Explore ecological distribution patterns and explain possible causes for these patterns.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7 Component: Living World Strand: Ecology

Achievement Objective Curriculum Level 7 Explain how the interaction between ecological factors and natural selection leads to genetic changes within populations.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7 Component: Living World Strand: Ecology and evolution

Science

Achievement Objective Curriculum Level 7 Understand that DNA and the environment interact in gene expression.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7 Component: Living World Strand: Evolution

Achievement Objective Curriculum Level 7 Explore the diverse ways in which animals and plants carry out the life processes.

Learning Area Cards

DTHM for kaiako

Learning area: Science Curriculum level: 7 Component: Living World Strand: Life processes

Science

Achievement Objective Curriculum Level 7 Apply knowledge of chemistry to explain aspects of the natural world and how chemistry is used in society to meet needs, resolve issues, and develop new technologies.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7 Component: Material World Strand: Chemistry and society

Achievement Objective Curriculum Level 7 Investigate and measure the chemical and physical properties of a range of groups of substances, for example, acids and bases, oxidants and reductants, and selected organic and inorganic compounds.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Material World

Strand: Properties and changes of matter

Science

Achievement Objective Curriculum Level 7 Relate properties of matter to structure and bonding.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7 Component: Material World

Strand: The structure of matter

Achievement Objective Curriculum Level 7 Develop an understanding of and use the fundamental concepts of chemistry (for example, equilibrium and thermochemical principles) to interpret observations.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Material World Strand: The structure of matter

Science

Achievement Objective Curriculum Level 7 Use accepted science knowledge, vocabulary, symbols, and conventions when evaluating accounts of the natural world and consider the wider implications of the methods of communication and/ or representation employed.

Learning Area Cards **DTHM for kaiako**

Learning area: Science
Curriculum level: 7
Component: Nature of Science
Strand: Communicating in science

Achievement Objective Curriculum Level 7 Develop and carry out investigations that extend their science knowledge, including developing their understanding of the relationship between investigations and scientific theories and models.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Nature of Science Strand: Investigating in science

Science

Achievement Objective Curriculum Level 7 Use relevant information to develop a coherent understanding of socioscientific issues that concern them, to identify possible responses at both personal and societal levels.

Learning Area Cards

DTHM for kaiako

Learning area: Science Curriculum level: 7

Component: Nature of Science Strand: Participating and contributing

Achievement Objective Curriculum Level 7 Understand that scientists have an obligation to connect their new ideas to current and historical scientific knowledge and to present their findings for peer review and debate.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Nature of Science Strand: Understanding about science

Science

Achievement Objective Curriculum Level 7 Investigate physical phenomena (in the areas of mechanics, electricity, electromagnetism, light and waves, and atomic and nuclear physics) and produce qualitative and quantitative explanations for a variety of unfamiliar situations.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Physical World

Strand: Physical inquiry and physics concepts

Achievement Objective Curriculum Level 7 Analyse data to deduce complex trends and relationships in physical phenomena.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Physical World

Strand: Physical inquiry and physics concepts

Science

Achievement Objective Curriculum Level 7 Use physics ideas to explain a technological or biological application of physics.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7 Component: Physical World Strand: Using physics

Achievement Objective Curriculum Level 7 Explain the nature and life cycles of different types of stars in terms of energy changes and time.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Planet Earth and Beyond Strand: Astronomical systems

Science

Achievement Objective Curriculum Level 7 Develop an understanding of the causes of natural hazards and their interactions with human activity on Earth.

Learning Area Cards **DTHM for kaiako**

Learning area: Science Curriculum level: 7

Component: Planet Earth and Beyond Strand: Earth systems and interacting systems

Achievement Objective Curriculum Level 7 Understand how economic concepts and models provide a means of analysing contemporary New Zealand issues.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 7 Component: Economics

Strand: N/A

Social Sciences

Achievement Objective Curriculum Level 7 Understand how government policies and contemporary issues interact.

Learning Area Cards **DTHM for kaiako**

Learning area: Social Sciences Curriculum level: 7 Component: Economics Strand: N/A

Achievement Objective Curriculum Level 7 Understand how people's perceptions of and interactions with natural and cultural environments differ and have changed over time.

Learning Area Cards **DTHM for kaiako**

Learning area: Social Sciences

Curriculum level: 7 Component: Geography

Strand: N/A

Social Sciences

Achievement Objective Curriculum Level 7 Understand how the processes that shape natural and cultural environments change over time, vary in scale and from place to place, and create spatial patterns.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences Curriculum level: 7 Component: Geography Strand: N/A

Achievement Objective Curriculum Level 7 Understand how historical forces and movements have influenced the causes and consequences of events of significance to New Zealanders.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 7 Component: History

Strand: N/A

Social Sciences

Achievement Objective
Curriculum Level 7

Understand how people's interpretations of events that are of significance to New Zealanders differ.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences Curriculum level: 7 Component: History Strand: N/A

Achievement Objective Curriculum Level 7 Understand how communities and nations meet their responsibilities and exercise their rights in local, national, and global contexts.

Learning Area Cards

DTHM for kaiako

Learning area: Social Sciences

Curriculum level: 7

Component: Social Studies

Strand: N/A

Social Sciences

Achievement Objective Curriculum Level 7 Understand how conflicts can arise from different cultural beliefs and ideas and be addressed in different ways with differing outcomes.

Learning Area Cards **DTHM for kaiako**

Learning area: Social Sciences Curriculum level: 7 Component: Social Studies Strand: N/A

Achievement Objective Curriculum Level 7 Understand how the "should" and "could" decisions in technological modelling rely on an understanding of how evidence can change in value across contexts and how different tools are used to ascertain and mitigate risk.

Learning Area Cards **DTHM for kaiako**

Learning area: Technology Curriculum level: 7

Component: Technological Knowledge Strand: Technological modelling

Technology

Achievement Objective Curriculum Level 7 Understand the concepts and processes employed in materials evaluation and the implications of these for design, development, maintenance, and disposal of technological products.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Technological Knowledge Strand: Technological products

Achievement Objective Curriculum Level 7 Understand the concepts of redundancy and reliability and their implications for the design, development, and maintenance of technological systems.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Technological Knowledge

Strand: Technological systems

Technology

Achievement Objective Curriculum Level 7 Understand that technological outcomes are a resolution of form and function priorities and that malfunction affects how people view and accept outcomes.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Nature of Technology

Strand: Characteristics of technological outcomes

Achievement Objective Curriculum Level 7 Understand the implications of ongoing contestation and competing priorities for complex and innovative decision making in technological development.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Nature of Technology Strand: Characteristics of technology

Technology

Achievement Objective Curriculum Level 7 Justify the nature of an intended outcome in relation to the issue to be resolved and justify specifications in terms of key stakeholder feedback and wider community considerations.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Technological Practice

Strand: Brief development

Achievement Objective Curriculum Level 7 Critically analyse their own and others' outcomes and evaluative practices to inform the development of ideas for feasible outcomes. Undertake a critical evaluation that is informed by ongoing experimentation and functional modelling, stakeholder feedback, and trialling in the physical and social environments. Use the information gained to select, justify, and develop an outcome. Evaluate this outcome's fitness for purpose against the brief. Justify the evaluation, using feedback from stakeholders and demonstrating a critical understanding of the issue.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Technological Practice

Strand: Outcome development and evaluation

Technology

Achievement Objective Curriculum Level 7 Critically analyse their own and others' past and current planning and management practices in order to develop and employ project management practices that will ensure the effective development of an outcome to completion.

Learning Area Cards

DTHM for kaiako

Learning area: Technology Curriculum level: 7

Component: Technological Practice
Strand: Planning for practice