

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Prepare, rehearse, and perform dance with an awareness of production technologies.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Dance  
**Strand:** Communicating and Interpreting

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Reflect on and describe how choreography communicates ideas, feelings, moods, and experiences.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Dance  
**Strand:** Communicating and Interpreting

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Present and respond to drama and describe how drama combines elements, techniques, conventions, and technologies to create structure and meaning in their own and others' work.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Drama

**Strand:** Communicating and Interpreting

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Prepare, rehearse, and present performances of music, using a range of performance skills and techniques.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Music – Sound Arts

**Strand:** Communicating and Interpreting

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Reflect on the expressive qualities of their own and others' music, both live and recorded.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Music – Sound Arts

**Strand:** Communicating and Interpreting

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Compare and contrast the ways in which ideas and art-making processes are used to communicate meaning in selected objects and images.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Visual Arts

**Strand:** Communicating and Interpreting

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Manipulate the elements and explore the use of choreographic devices and structures to organise dance movement.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Dance  
**Strand:** Developing Ideas

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Select and refine ideas to develop drama for specific purposes.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Drama  
**Strand:** Developing Ideas

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Use musical elements, instruments, technologies, and conventions to express, develop, and refine structured compositions and improvisations.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Music – Sound Arts  
**Strand:** Developing Ideas

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Represent compositions and improvisation frameworks, using appropriate conventions.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Music – Sound Arts  
**Strand:** Developing Ideas

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Generate, develop, and refine ideas in response to a variety of motivations, including the study of established practice.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Visual Arts  
**Strand:** Developing Ideas

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Develop a variety of skills, dance techniques, vocabularies, and movement practices.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Dance  
**Strand:** Developing Practical Knowledge

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Select and use techniques, conventions, and relevant technologies for specific drama purposes.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Drama

**Strand:** Developing Practical Knowledge

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Apply knowledge of the elements of music, structural devices, stylistic conventions, and technologies through integrating aural, practical, and theoretical skills.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Music – Sound Arts

**Strand:** Developing Practical Knowledge

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Apply knowledge of selected conventions from established practice, using appropriate processes and procedures.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Visual Arts

**Strand:** Developing Practical Knowledge

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Compare and contrast dances from a variety of past and present cultures and contexts.

---

**Learning area:** The Arts

**Curriculum level:** 5

**Component:** Dance

**Strand:** Understanding the Arts in Context



# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate the characteristics, purposes, and function of drama in a range of contexts.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Drama  
**Strand:** Understanding the Arts in Context

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Compare and contrast the characteristics of music associated with a range of sound environments, in relation to historical, social, and cultural contexts.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Music – Sound Arts  
**Strand:** Understanding the Arts in Context

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate how music serves a variety of purposes and functions in their own lives and in their communities.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Music – Sound Arts  
**Strand:** Understanding the Arts in Context

# The Arts

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate and consider the relationship between the production of art works and their contexts and influences.

---

**Learning area:** The Arts  
**Curriculum level:** 5  
**Component:** Visual Arts  
**Strand:** Understanding the Arts in Context

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Show an understanding of ideas within, across, and beyond texts.

indicators:

makes meaning by understanding increasingly comprehensive ideas in texts and the links between them;

makes connections by exploring 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:** English

**Curriculum level:** 5

**Component:** Listening, Reading, and Viewing

**Strand:** Ideas

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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

indicators:

identifies oral, written, and visual language features and understands their effects;

uses an increasing vocabulary to make meaning;

understands how a range of text conventions work together to create meaning and effect;

understands that authors have different voices and styles and can identify those differences.

---

**Learning area:** English

**Curriculum level:** 5

**Component:** Listening, Reading, and Viewing

**Strand:** Language features

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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:** 5

**Component:** Listening, Reading, and Viewing

**Strand:** Processes and strategies

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Show an 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:** English

**Curriculum level:** 5

**Component:** Listening, Reading, and Viewing

**Strand:** Purposes and audiences

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Show an 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:** English

**Curriculum level:** 5

**Component:** Listening, Reading, and Viewing

**Strand:** Structure

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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

indicators:

develops and communicates increasingly comprehensive ideas, information, and understandings;

develops ideas by adding details or making links to other ideas and details;

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

---

**Learning area:** English

**Curriculum level:** 5

**Component:** Speaking, Writing, Presenting

**Strand:** Ideas

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Select and use a range of language features appropriately, showing an understanding of their effects.

indicators:

uses a wide range of oral, written, and visual language features to create meaning and effect and to sustain interest;

uses an increasing range of vocabulary to communicate precise meaning;

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

---

**Learning area:** English

**Curriculum level:** 5

**Component:** Speaking, Writing, Presenting

**Strand:** Language features

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Integrate sources of information, processes, and strategies purposefully and confidently 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 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:** 5

**Component:** Speaking, Writing, Presenting

**Strand:** Processes and strategies

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Show an 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:** 5

**Component:** Speaking, Writing, Presenting

**Strand:** Purposes and audiences

# English

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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:** English

**Curriculum level:** 5

**Component:** Speaking, Writing, Presenting

**Strand:** Structure

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Investigate community services that support and promote people's well-being and take action to promote personal and group involvement.

---

**Learning area:** Health and Physical Education

**Curriculum level:** 5

**Component:** Healthy Communities and Environments

**Strand:** Community resources

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Investigate and evaluate aspects of the school environment that affect people's well-being and take action to enhance these aspects.

---

**Learning area:** Health and Physical Education

**Curriculum level:** 5

**Component:** Healthy Communities and Environments

**Strand:** People and the environment



# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Identify the rights and responsibilities of consumers and use this information to evaluate health and recreational services and products in the community.

---

**Learning area:** Health and Physical Education

**Curriculum level:** 5

**Component:** Healthy Communities and Environments

**Strand:** Rights, responsibilities, and laws

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Investigate societal influences on the well-being of student communities.

---

**Learning area:** Health and Physical Education

**Curriculum level:** 5

**Component:** Healthy Communities and Environments

**Strand:** Societal attitudes and values

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate and experience ways in which people's physical competence and participation are influenced by social and cultural factors.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Movement Concepts and Motor Skills  
**Strand:** Challenges and social and cultural factors

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Acquire and apply complex motor skills by using basic principles of motor learning.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Movement Concepts and Motor Skills  
**Strand:** Movement skills

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Develop skills and responsible attitudes in challenging physical situations.

---

**Learning area:** Health and Physical Education

**Curriculum level:** 5

**Component:** Movement Concepts and Motor Skills

**Strand:** Positive attitudes

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate and experience ways in which scientific, technological, and environmental knowledge and resources assist in and influence people's participation in regular physical activity.

---

**Learning area:** Health and Physical Education

**Curriculum level:** 5

**Component:** Movement Concepts and Motor Skills

**Strand:** Science and technology

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Describe physical, social, emotional, and intellectual processes of growth and relate these to features of adolescent development and effective self-management strategies.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Personal Health and Physical Development  
**Strand:** Personal growth and development

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate and describe the ways in which individuals define their own identity and sense of self-worth and how this influences the ways in which they describe other people.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Personal Health and Physical Development  
**Strand:** Personal identity

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Experience a range of personally enjoyable physical activities and describe how varying levels of involvement affect well-being and lifestyle balance.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Personal Health and Physical Development  
**Strand:** Regular physical activity

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate and practise safety procedures and strategies to manage risk situations.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Personal Health and Physical Development  
**Strand:** Safety management

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Demonstrate an understanding of how attitudes and values relating to difference influence their own safety and that of other people.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Relationships with Other People  
**Strand:** Identity, sensitivity, and respect

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Demonstrate a range of interpersonal skills and processes that help them to make safe choices for themselves and other people in a variety of settings.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Relationships with Other People  
**Strand:** Interpersonal skills

# Health and Physical Education

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Identify issues associated with relationships and describe options to achieve positive outcomes.

---

**Learning area:** Health and Physical Education  
**Curriculum level:** 5  
**Component:** Relationships with Other People  
**Strand:** Relationships

# Learning Languages

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Express and respond to personal ideas and opinions.

---

**Learning area:** Learning Languages  
**Curriculum level:** 5  
**Component:** Communication  
**Strand:** Managing self and relating to others

# Learning Languages

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Communicate appropriately in different situations.

---

**Learning area:** Learning Languages

**Curriculum level:** 5

**Component:** Communication

**Strand:** Participating and contributing in communities

# Learning Languages

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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

---

**Learning area:** Learning Languages

**Curriculum level:** 5

**Component:** Communication

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



# Learning Languages

Achievement Objective  
Curriculum Level 5

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:** 5  
**Component:** Cultural Knowledge  
**Strand:** N/A

# Learning Languages

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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

---

**Learning area:** Learning Languages  
**Curriculum level:** 5  
**Component:** Language Knowledge  
**Strand:** N/A

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Select and use appropriate metric units for length, area, volume and capacity, weight (mass), temperature, angle, and time, with awareness that measurements are approximate.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Measurement

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Convert between metric units, using decimals.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Measurement

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Deduce and use formulae to find the perimeters and areas of polygons and the volumes of prisms.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Measurement

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Find the perimeters and areas of circles and composite shapes and the volumes of prisms, including cylinders.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Measurement

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Construct and describe simple loci.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Position and Orientation

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Interpret points and lines on co-ordinate planes, including scales and bearings on maps.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Position and Orientation

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Deduce the angle properties of intersecting and parallel lines and the angle properties of polygons and apply these properties.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Shape

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Create accurate nets for simple polyhedra and connect three-dimensional solids with different two-dimensional representations.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Shape

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Define and use transformations and describe the invariant properties of figures and objects under these transformations.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Transformation

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Apply trigonometric ratios and Pythagoras' theorem in two dimensions.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Geometry and Measurement  
**Strand:** Transformation

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Form and solve linear and simple quadratic equations.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Equations and expressions

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Reason with linear proportions.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Number strategies and knowledge

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Use prime numbers, common factors and multiples, and powers (including square roots).

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Number strategies and knowledge

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand operations on fractions, decimals, percentages, and integers.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Number strategies and knowledge



# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Use rates and ratios.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Number strategies and knowledge

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Know commonly used fraction, decimal, and percentage conversions.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Number strategies and knowledge

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Know and apply standard form, significant figures, rounding, and decimal place value.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Number strategies and knowledge

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Generalise the properties of operations with fractional numbers and integers.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Patterns and relationships

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Relate tables, graphs, and equations to linear and simple quadratic relationships found in number and spatial patterns.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Number and Algebra  
**Strand:** Patterns and relationships

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Compare and describe the variation between theoretical and experimental distributions in situations that involve elements of chance.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Statistics  
**Strand:** Probability

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Calculate probabilities, using fractions, percentages, and ratios.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Statistics  
**Strand:** Probability

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Plan and conduct surveys and experiments using the statistical enquiry cycle:  
determining appropriate variables and measures;  
considering sources of variation;  
gathering and cleaning data;  
using multiple displays, and re-categorising data to find patterns, variations, relationships, and trends in multivariate data sets;  
comparing sample distributions visually, using measures of centre, spread, and proportion;  
presenting a report of findings.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Statistics  
**Strand:** Statistical Investigation

# Mathematics and Statistics

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Evaluate statistical investigations or probability activities undertaken by others, including data collection methods, choice of measures, and validity of findings.

---

**Learning area:** Mathematics and Statistics  
**Curriculum level:** 5  
**Component:** Statistics  
**Strand:** Statistical Literacy

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Link the properties of different groups of substances to the way they are used in society or occur in nature.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Material World  
**Strand:** Chemistry and society

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate the chemical and physical properties of different groups of substances, for example, acids and bases, fuels, and metals.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Material World

**Strand:** Properties and changes of matter

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Distinguish between pure substances and mixtures and between elements and compounds.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Material World

**Strand:** Properties and changes of matter

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Describe the structure of the atoms of different elements.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Material World  
**Strand:** The structure of matter

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Distinguish between an element and a compound, a pure substance and a mixture at particle level.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Material World  
**Strand:** The structure of matter

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Use a wider range of science vocabulary, symbols, and conventions.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Nature of Science  
**Strand:** Communicating in science

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Apply their understandings of science to evaluate both popular and scientific texts (including visual and numerical literacy).

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Nature of Science  
**Strand:** Communicating in science



# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate the interdependence of living things (including humans) in an ecosystem.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Living World  
**Strand:** Ecology

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Describe the basic processes by which genetic information is passed from one generation to the next.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Living World  
**Strand:** Evolution

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Develop and carry out more complex investigations, including using models.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Nature of Science

**Strand:** Investigating in science

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Show an increasing awareness of the complexity of working scientifically, including recognition of multiple variables.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Nature of Science

**Strand:** Investigating in science

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Begin to evaluate the suitability of the investigative methods chosen.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Nature of Science  
**Strand:** Investigating in science

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Identify the key structural features and functions involved in the life processes of plants and animals.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Living World  
**Strand:** Life processes

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Describe the organisation of life at the cellular level.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Living World

**Strand:** Life processes

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Develop an understanding of socio-scientific issues by gathering relevant scientific information in order to draw evidence-based conclusions and to take action where appropriate.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Nature of Science

**Strand:** Participating and contributing

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

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:** Science

**Curriculum level:** 5

**Component:** Nature of Science

**Strand:** Understanding about science

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Identify and describe the patterns associated with physical phenomena found in simple everyday situations involving movement, forces, electricity and magnetism, light, sound, waves, and heat. For example, identify and describe energy changes and conservation of energy, simple electrical circuits, and the effect of contact and non-contact on the motion of objects.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Physical World

**Strand:** Physical inquiry and physics concepts

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Explore a technological or biological application of physics.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Physical World  
**Strand:** Using physics

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate the conditions on the planets and their moons, and the factors affecting them.

---

**Learning area:** Science  
**Curriculum level:** 5  
**Component:** Planet Earth and Beyond  
**Strand:** Astronomical systems

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate the composition, structure, and features of the geosphere, hydrosphere, and atmosphere.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Planet Earth and Beyond

**Strand:** Earth systems

# Science

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Investigate how heat from the Sun, the Earth, and human activities is distributed around Earth by the geosphere, hydrosphere, and atmosphere.

---

**Learning area:** Science

**Curriculum level:** 5

**Component:** Planet Earth and Beyond

**Strand:** Interacting systems

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how systems of government in New Zealand operate and affect people's lives, and how they compare with another system.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how the Treaty of Waitangi is responded to differently by people in different times and places.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A



# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how cultural interaction impacts on cultures and societies.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand that people move between places and how this has consequences for the people and the places.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how economic decisions impact on people, communities, and nations.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how people's management of resources impacts on environmental and social sustainability.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how the ideas and actions of people in the past have had a significant impact on people's lives.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how people seek and have sought economic growth through business, enterprise, and innovation.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Social Sciences

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how people define and seek human rights.

---

**Learning area:** Social Sciences  
**Curriculum level:** 5  
**Component:** Social Studies  
**Strand:** N/A

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how evidence, reasoning, and decision making in functional modelling contribute to the development of design concepts and how prototyping can be used to justify ongoing refinement of outcomes.

---

**Learning area:** Technology  
**Curriculum level:** 5  
**Component:** Technological Knowledge  
**Strand:** Technological modelling

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how materials are selected, based on desired performance criteria.

---

**Learning area:** Technology  
**Curriculum level:** 5  
**Component:** Technological Knowledge  
**Strand:** Technological products

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand the properties of subsystems within technological systems.

---

**Learning area:** Technology  
**Curriculum level:** 5  
**Component:** Technological Knowledge  
**Strand:** Technological systems

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand that technological outcomes are fit for purpose in terms of time and context.  
Understand the concept of malfunction and how “failure” can inform future outcomes.

---

**Learning area:** Technology  
**Curriculum level:** 5  
**Component:** Nature of Technology  
**Strand:** Characteristics of technological outcomes

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Understand how people’s perceptions and acceptance of technology impact on technological developments and how and why technological knowledge becomes codified.

---

**Learning area:** Technology  
**Curriculum level:** 5  
**Component:** Nature of Technology  
**Strand:** Characteristics of technology

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Justify the nature of an intended outcome in relation to the need or opportunity. Describe specifications that reflect key stakeholder feedback and that will inform the development of an outcome and its evaluation.

---

**Learning area:** Technology

**Curriculum level:** 5

**Component:** Technological Practice

**Strand:** Brief development

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards

**DTHM for kaiako**

Analyse their own and others' outcomes to inform the development of ideas for feasible outcomes. Undertake ongoing functional modelling and evaluation that takes account of key stakeholder feedback and trialling in the physical and social environments. Use the information gained to select and develop the outcome that best addresses the specifications. Evaluate the final outcome's fitness for purpose against the brief.

---

**Learning area:** Technology

**Curriculum level:** 5

**Component:** Technological Practice

**Strand:** Outcome development and evaluation

# Technology

Achievement Objective  
Curriculum Level 5

Learning Area Cards  
**DTHM for kaiako**

Analyse their own and others' planning practices to inform the selection and use of planning tools. Use these to support and justify planning decisions (including those relating to the management of resources) that will see the development of an outcome through to completion.

---

**Learning area:** Technology

**Curriculum level:** 5

**Component:** Technological Practice

**Strand:** Planning for practice