# **NEW ZEALAND CURRICULUM CONNECTIONS**

LEARNING AREAS	Science, Technology, Social Sciences, English, The Arts – Drama.
KEY COMPENTENCIES	In association with the Teacher Guidebook, <i>Time For Tech</i> contributes to: Thinking, Using language, symbols, and texts, Managing self, Relating to others, Participating and contributing.
THEMES	Sustainable Agriculture, Food Technology and Innovation, Laboratory Developed Foods, Food Resilience and Security in a COVID Impacted World, STEM Careers in Food Science

#### **LEARNING AREAS – ACHIEVEMENT OBJECTIVES**

#### LEVEL 3 **SCIENCE** SCIENCE: NATURE OF SCIENCE Understanding Appreciate that science is a way of explaining the world and that science about science knowledge changes over time. Identify ways in which scientists work together and provide evidence to support their ideas. Investigating in Build on prior experiences, working together to share and examine their Science own and others' knowledge. Ask questions, find evidence, explore simple models, and carry out appropriate investigations to develop simple explanations. Communicating in Engage with a range of science texts and begin to question the purposes science for which these texts are constructed. Participating and Use their growing science knowledge when considering issues of concern contributing to them. Explore various aspects of an issue and make decisions about possible actions. SCIENCE: LIVING WORLD Recognise that there are life processes common to all living things and that Life processes these occur in different ways. Ecology Explain how living things are suited to their particular habitat and how they respond to environmental changes, both natural and human-induced. SCIENCE: PLANET EARTH AND BEYOND Earth systems Appreciate that water, air, rocks and soil, and life forms make up our planet and recognise that these are also Earth's resources. Investigate the water cycle and its effect on climate, landforms, and life. Interacting Systems SCIENCE: PHYSICAL WORLD **Physical inquiry** Explore, describe, and represent patterns and trends for everyday and physics examples of physical phenomena, such as movement, forces, electricity concepts and magnetism, light, sound, waves, and heat. For example, identify and describe the effect of forces (contact and non-contact) on the motion of objects; identify and describe everyday examples of sources of energy, forms of energy, and energy transformations.

#### TECHNOLOGY

#### **TECHNOLOGY: NATURE OF TECHNOLOGY**

Characteristics of technology knowledge is validated by successful function.

# SOCIAL SCIENCES

#### **SOCIAL SCIENCES**

Social studies Understand how people make decisions about access to and use of resources.

### **ENGLISH**

#### **ENGLISH: LISTENING, READING, AND VIEWING**

Processes and	Integrate sources of information, processes, and strategies with developing
strategies	confidence to identify, form, and express ideas.
Purposes and	Show a developing understanding of how texts are shaped for different
audiences	purposes and audiences.
Ideas	Show a developing understanding of ideas within, across, and beyond texts.
Language	Show a developing understanding of how language features are used for effect
features	within and across texts.

#### **THE ARTS**

#### DRAMA

Understanding	Investigate the functions and purposes of drama in cultural and historical
drama in	contexts.
context	
Communicating	Present and respond to drama, identifying ways in which elements,
and	techniques, conventions, and technologies combine to create meaning in their
interpreting	own and others' work.

LEVEL 4	
TECHNOLOGY	
TECHNOLOGY: TECHNOLOGICAL KNOWLEDGE	
Technological products	Understand that materials can be formed, manipulated, and/or transformed to enhance the fitness for purpose of a technological product.

# SCIENCE

#### SCIENCE: NATURE OF SCIENCE

Understanding	Appreciate that science is a way of explaining the world and that science
about science	knowledge changes over time.
	Identify ways in which scientists work together and provide evidence to
	support their ideas.
Investigating in	Build on prior experiences, working together to share and examine their own
Science	and others' knowledge.
	Ask questions find evidence explore simple models, and carry out appropriate
	investigations to develop simple explanations
Communicating	Begin to use a range of scientific symbols, conventions, and vocabulary.
in science	
	Engage with a range of science texts and begin to question the purposes for
	which these texts are constructed.
Participating	Use their growing science knowledge when considering issues of concern to
and	them.
contributing	
	Explore various aspects of an issue and make decisions about possible actions.
	SCIENCE: LIVING WORLD
Life processes	Recognise that there are life processes common to all living things and that
	these occur in different ways.
Ecology	Explain how living things are suited to their particular habitat and how they
	respond to environmental changes, both natural and human-induced.
-	SCIENCE: PLANET EARTH AND BEYOND
Earth systems	Appreciate that water, air, rocks and soil, and life forms make up our planet and
1.1	recognise that these are also Earth's resources.
Interacting	investigate the water cycle and its effect on climate, landforms, and life.
Systems	
Dhusical inquiru	SCIENCE: PHYSICAL WORLD
and physics	Explore, describe, and represent patterns and trends for everyday examples of
concents	physical phenomena, such as movement, forces, electricity and magnetism,
	ight, sound, waves, and neat. For example, identify and describe the effect of
	describe everyday everyday of sources of energy forms of energy and
	describe everyday examples of sources of energy, forms of energy, and energy
	transformations.

# TECHNOLOGY

#### **TECHNOLOGY: NATURE OF TECHNOLOGY**

Characteristics<br/>of technologyUnderstand how technological development expands human possibilities and<br/>how technology draws on knowledge from a wide range of disciplines.

#### SOCIAL SCIENCES

SOCIAL SCIENCES	
Social studies	Understand how exploration and innovation create opportunities and challenges for people, places, and environments.
	Understand how producers and consumers exercise their rights and meet their responsibilities.
	Understand how people participate individually and collectively in response to community challenges.

# **ENGLISH**

#### ENGLISH: LISTENING, READING, AND VIEWING

Processes and	Integrate sources of information, processes, and strategies to confidently
strategies	identify, form, and express ideas.
Purposes and	Show an increasing understanding of how texts are shaped for different
audiences	purposes and audiences.
Ideas	Show an increasing understanding of ideas within, across, and beyond texts.
Language	Show an increasing understanding of how language features are used for effect
features	within and across texts.
Structure	Show an increasing understanding of text structures.

#### **THE ARTS**

#### THE ARTS: DRAMA

Understanding	Investigate the functions and purposes of drama in cultural and historical
drama in	contexts.
context	
Communicating	Present and respond to drama, identifying ways in which elements,
and	techniques, conventions, and technologies combine to create meaning in their
interpreting	own and others' work.



# LEVEL 5 SCIENCE

#### SCIENCE: NATURE OF SCIENCE

Understanding	Understand that scientists' investigations are informed by current scientific	
about science	theories and aim to collect evidence that will be interpreted through processes	
	of logical argument.	
Communicating	Use a wider range of science vocabulary, symbols, and conventions.	
in science		
	Apply their understandings of science to evaluate both popular and scientific	
	texts (including visual and numerical literacy).	
Participating	Develop an understanding of socio-scientific issues by gathering relevant	
and	scientific information in order to draw evidence-based conclusions and to take	
contributing	action where appropriate.	
SCIENCE: LIVING WORLD		
Ecology	Investigate the interdependence of living things (including humans) in an	
	ecosystem.	
Life processes	Identify the key structural features and functions involved in the life processes	
	of plants and animals.	
Evolution	Describe the basic processes by which genetic information is passed from one	
	generation to the next.	
	SCIENCE: PLANET EARTH AND BEYOND	
Earth systems	Investigate the composition, structure, and features of the geosphere,	
	hydrosphere, and atmosphere.	
Interacting	Investigate how heat from the Sun, the Earth, and human activities is	
Systems	distributed around Earth by the geosphere, hydrosphere, and atmosphere.	
SCIENCE: PHYSICAL WORLD		
Physical inquiry	Identify and describe the patterns associated with physical phenomena found	
and physics	in simple everyday situations involving movement, forces, electricity and	
concepts	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.	
Using physics	Explore a technological or biological application of physics.	

# TECHNOLOGY

#### **TECHNOLOGY: NATURE OF TECHNOLOGY**

Characteristics	Understand how people's perceptions and acceptance of technology impact on
of technology	technological developments and how and why technological knowledge
	becomes codified.
Characteristics	Understand that technological outcomes are fit for purpose in terms of time
of technological	and context. Understand the concept of malfunction and how "failure" can
outcomes	inform future outcomes.

#### SOCIAL SCIENCES

# Social studies Understand how economic decisions impact on people, communities, and nations. Understand how people's management of resources impacts on environmental and social sustainability. Understand how the ideas and actions of people in the past have had a significant impact on people's lives. Understand how people seek and have sought economic growth through business, enterprise, and innovation.

#### **ENGLISH**

#### ENGLISH: LISTENING, READING, AND VIEWING

Processes and	Integrate sources of information, processes, and strategies purposefully and
strategies	confidently to identify, form, and express increasingly sophisticated ideas.
Purposes and	Show an understanding of how texts are shaped for different purposes and
audiences	audiences.
Ideas	Show an understanding of ideas within, across, and beyond texts.
Language	Show an understanding of how language features are used for effect within
features	and across texts.
Structure	Show an understanding of a range of structures.

#### **THE ARTS**

#### THE ARTS: DRAMA

Understanding	Investigate the characteristics, purposes, and functions of drama in a range of
drama in	contexts.
context	
Communicating	Present and respond to drama, and describe how drama combines elements,
and	techniques, conventions, and technologies to create structure in their own and
interpreting	others' work.