Key				
	Externally Assessed			
NB	The subject area does not have externally assessed material			

				Ngā Marautanga			
	<u>Hangarau</u>	<u>Hauora</u>	<u>Ngā Toi</u>	<u>Pāngarau</u>	<u>Pūtaiao</u>	Te Reo Rangatira	<u>Tikanga-ā-lwi</u>
Te Marautanga o	AS91770	AS91790	AS91751	AS91256	AS91766	AS91777	AS91758
<u>Aotearoa</u>	2.1 Te whakaputa tauāki hei whakaea i tētahi take hangarau motuhake.	2.1 Te whakaahua i tētahi āhuatanga matatika me te pānga ki te hunga taiohi.	Ngā Mahi a Te Rēhia 2.1 Te whakamātau i ngā pūkenga toi o ngā mahi a te rēhia.	2.1 Te whakamahi tikanga āhuahanga taunga hei whakaoti rapanga.	2.1 Te whakahāngai huatau koiora ki tētahi rauropi whakahirahira ki te Māori.	2.1 Te whakarongo ki ngā tohunga reo.	2.1 Te whakaatu mõhiotanga ki ngā take e hūnuku ai tētahi rõpū me ngā pāpātanga ki te iwi.
	Whiwhinga 4	Whiwhinga 4	Whiwhinga 4	Whiwhinga 2	Whiwhinga 4	Whiwhinga 3	Whiwhinga 4
	AS91771	AS91791	AS91752	AS91257	AS91767	AS91778	AS91759
	2.2 Te whakatakoto tikanga hei whakaea i tētahi take hangarau motuhake.	2.2 Te whakaatu māramatanga ki ngā kai taketake me te pānga ki te oranga tangata.	2.2 Te whakamātau i ngā huānga toi o ngā mahi a te rēhia.	2.2 Te whakamahi tikanga kauwhata pānga hei whakaoti rapanga.	2.2 Te tūhura i ngā panoni hauropi o tētahi wāhi whakahirahira ki te Māori.	2.2 Te wetewete i ngā tuhinga tuatahi.	2.2 Te tühura i ngā take e pā ana ki te whakamahi whenua.
	Whiwhinga 4	Whiwhinga 4	Whiwhinga 4	Whiwhinga 4	Whiwhinga 4	Whiwhinga 3	Whiwhinga 4
	AS91772	AS91792	AS91753	AS91258	AS91768	AS91779	AS91760
	2.3 Te whakaputa hoahoa hei whakaea i tētahi take hangarau motuhake.	2.3 Te arotake i tētahi kaupapa tiaki taiao i runga i te tirohanga Māori.	2.3 Te whakamātau i ngā tukanga toi o ngā mahi a te rēhia.	2.3 Te whakamahi tapeke raupapa hei whakaoti rapanga.	2.3 Te whakahāngai huatau pūtaiao ā-nuku ki tētahi āhuatanga e pā ana ki a Papatūānuku.	2.3 Te pānui i ngā tuhinga tawhito.	2.3 Te tūhura i tētahi take tōrangapū.
	Whiwhinga 4	Whiwhinga 5	Whiwhinga 4	Whiwhinga 2	Whiwhinga 4	Whiwhinga 3	Whiwhinga 4
	AS91773	AS91793	AS91754	AS91259	AS91769	AS91780	AS91761
	2.4 Te whakaputa i tētahi hua hangarau rorohiko hei whakaea i tētahi take hangarau motuhake.	Te whakaatu māramatanga ki te pānga o te whakawhanaungatanga ki te oranga tangata.	2.4 Te whakaoti mahi toi nō te ao onamata i roto i ngā mahi a te rēhia.	2.4 Te whakamahi pānga pākoki hei whakaoti rapanga.	2.4 Te whakahāngai huatau tātai arorangi ki tētahi whetū whakahirahira ki te Māori.	2.4 Te tuhi kõrero whakaae rānei, whakahē rānei.	2.4 Te tūhura i ngā take e pāpā ana ki te oranga tonutanga o te reo Māori.
	Whiwhinga 6	Whiwhinga 4	Whiwhinga 6	Whiwhinga 3	Whiwhinga 4	Whiwhinga 3	Whiwhinga 4
	AS91774	AS91794	AS91755	AS91260		AS91781	AS91762
	2.5 Te whakaputa i tētahi hua hangarau hanganga hei whakaea i tētahi take hangarau motuhake.	2.5 Te tātari i te pānga o ngā uara o te porihanga ki te oranga o te tangata.	2.5 Te whakamātau hangarau matihiko hei whakaniko i tētahi mahi toi i roto i ngā mahi a te rēhia.	2.5 Te whakamahi tikanga rauara hei whakaoti rapanga.		2.5 Te tito i te whakaari.	2.5 Te tātari i te tuakiri ā-iwi.
	Whiwhinga 6	Whiwhinga 4	Whiwhinga 4	Whiwhinga 2		Whiwhinga 4	Whiwhinga 4
	AS91775		AS91756	AS91261		AS91782	AS91763
	2.6 Te whakaputa i tētahi hua hangarau kai hei whakaea i tētahi take hangarau motuhake.		2.6 Te arotake i ngā mahi toi a tētahi kaitoi nō iwi taketake i roto i ngā mahi a te rēhia.	2.6 Te whakamahi tikanga taurangi hei whakaoti rapanga.		2.6 Te tito i tētahi pakiwaitara poto.	2.6 Te tātari i tētahi take i tutū ai te puehu i Aotearoa.
	Whiwhinga 6		Whiwhinga 4	Whiwhinga 4		Whiwhinga 5	Whiwhinga 4
	AS91776		AS91757	AS91262		AS91783	
	2.7 Te whakaputa i tētahi hua hangarau kākahu hei whakaea i tētahi take hangarau motuhake.		2.7 Te whakataurite i tētahi toi taketake ki tētahi mahi toi o ēnei rā i roto i ngā mahi a te rēhia.	2.7 Te whakamahi tikanga tuanaki hei whakaoti rapanga.		2.7 Te whakarite i te whaituhi roa mõ te takenga o te reo Māori.	
	Whiwhinga 6		Whiwhinga 4	Whiwhinga 5		Whiwhinga 5	
			AS91737	AS91263		AS91784	
			Toi Ataata	2.8 Te waihanga i te uiui pāngarau.		2.8 Te kõrero i te pakiwaitara.	
			2.1 Te whakamātau i ngā pūkenga toi o ngā toi ataata.				
			Whiwhinga 4	Whiwhinga 3		Whiwhinga 4	
			AS91738	AS91264		AS91785	
			2.2 Te whakamātau i ngā huānga toi o ngā toi ataata.	2.9 Te whai i ngā tikanga o te tūhuratanga tauanga hei whakaputa hīkaro.		2.9 Te whakahāngai i ngā kōrero o nehe ki te ao hou hei kōrero ohia.	
			Whiwhinga 4	Whiwhinga 4		Whiwhinga 3	

Key				
	Externally Assessed			
NB	The subject area does not have externally assessed material			

Ngā Marautanga								
<u>Hangarau</u>	<u>Hauora</u>	<u>Ngā Toi</u>	<u>Pāngarau</u>	<u>Pūtaiao</u>	Te Reo Rangatira	<u>Tikanga-ā-lwi</u>		
		AS91739 2.3 Te whakamātau i ngā tukanga toi o ngā toi ataata.	AS91265 2.10 Te whakamahi tikanga whakamātau tauanga hei tūhura i tētahi huinga raraunga.		AS91786 2.10 Te wetewete kaupapa.			
		Whiwhinga 4	Whiwhinga 3		Whiwhinga 3			
		AS91740	AS91266		AS91787			
		2.4 Te whakaoti mahi toi nō te ao onamata i roto i ngā toi ataata.	2.11 Te arotake i te pūrongo tauanga hei tautohu i te whaihua o ngā whakapae.		2.11 Te tūhura me te pūrongo i te reo peha.			
		Whiwhinga 6	Whiwhinga 2		Whiwhinga 4			
		AS91741	AS91267		AS91788			
		2.5 Te whakamātau hangarau matihiko hei whakaniko i tētahi mahi toi i roto i ngā toi ataata.	2.12 Te whakamahi tikanga tüponotanga hei whakaoti rapanga.		2.12 Te tūhura i ngā tikanga o te reo.			
		Whiwhinga 4	Whiwhinga 4		Whiwhinga 4			
		AS91742	AS91268					
		2.6 Te arotake i ngā mahi toi a tētahi kaitoi nō iwi taketake i roto i ngā toi ataata.	2.13 Te tühura püāhua tüponotanga mā te whakatipu putanga whakamātau tūpono.					
		Whiwhinga 4	Whiwhinga 2					
		AS91743	AS91269					
		2.7 Te whakataurite i tētahi toi taketake ki tētahi mahi toi o ēnei rā i roto i ngā toi ataata.	2.14 Te whakamahi whārite tukutahi hei whakaoti rapanga.					
		Whiwhinga 4	Whiwhinga 2					
		AS91744	AS91764					
		Toi Puoro	2.15 Te whakahaere rangahau pāngarau.					
		2.1 Te whakamātau i ngā pūkenga toi o ngā toi puoro.	pangarau.					
		Whiwhinga 4	Whiwhinga 3					
		AS91745	AS91765					
		2.2 Te whakamātau i ngā huānga toi o ngā toi puoro.	2.16 Te tātari i te reo motuhake o tētahi kōrero pāngarau.					
		Whiwhinga 4	Whiwhinga 3					
		AS91746 2.3 Te whakamātau i ngā tukanga toi o ngā toi puoro.						
		Whiwhinga 4						
		AS91747						
		2.4 Te whakaoti mahi toi nō te ao onamata i roto i ngā toi puoro.						
		Whiwhinga 6						
		AS91748						
		2.5 Te whakamātau hangarau matihiko hei whakaniko i tētahi mahi toi i roto i ngā toi puoro.						
		Whiwhinga 4						

Key				
	Externally Assessed			
NB	The subject area does not have externally assessed material			

	Ngā Marautanga							
	<u>Hangarau</u>	<u>Hauora</u>	<u>Ngā Toi</u>	<u>Pāngarau</u>	<u>Pūtaiao</u>	Te Reo Rangatira	<u>Tikanga-ā-lwi</u>	
New Zealand	Business Studies:	Health:	AS91749 2.6 Te arotake i ngā mahi toi a tētahi kaitoi nō iwi taketake i roto i ngā toi puoro. Whiwhinga 4 AS91750 2.7 Te whakataurite i tētahi toi taketake ki tētahi mahi toi o ēnei rā i roto i ngā toi puoro. Whiwhinga 4 Dance:	Mathematics and Statistics:	Biology:	N/A	Business Studies:	
	2.3 Conduct market research for a new or existing product Design and Visual Communication: 2.30 Use visual communication techniques to generate design ideas 2.31 Produce working drawings to communicate technical details of a design 2.32 Produce instrumental perspective projection drawings to communicate design ideas. 2.33 Use the characteristics of a design movement or era to inform own design ideas. 2.34 Develop a spatial design through graphics practice. 2.35 Develop a product design through graphics practice. 2.36 Use visual communication techniques to compose a presentation of a design.	 2.1 Analyse an adolescent health issue 2.2 Evaluate factors that influence people's ability to manage change 2.3 Take action to enhance an aspect of people's well-being within the school or wider community 2.4 Analyse an interpersonal issue(s) that places personal safety at risk 2.5 Analyse issues related to sexuality and gender to develop strategies for addressing the issues Home Economics: 2.1 Analyse issues related to the provision of food for people with specific food needs 2.2 Analyse the relationship between well-being, food choices and determinants of health 2.3 Analyse beliefs, attitudes and practices related to a nutritional issue for families in New 	 2.1 Choreograph a group dance to communicate an intention 2.2 Choreograph a solo dance to communicate an intention 2.3 Perform an ethnic or social dance to communicate understanding of the style 2.4 Perform a theatre dance to communicate understanding of the dance. 2.5 Perform a repertoire of dance. 2.6 Demonstrate understanding of a range of choreographic processes 2.7 Provide an interpretation of a dance performance with supporting evidence 2.8 Demonstrate understanding of a dance genre or style in context Drama: 2.1 Apply drama techniques in a scripted context 2.2 Devise and perform a drama to realise an intention 	 2.1 Apply co-ordinate geometry methods in solving problems 2.2 Apply graphical methods in solving problems 2.3 Apply sequences and series in solving problems 2.4 Apply trigonometric relationships in solving problems 2.5 Apply network methods in solving problems 2.6 Apply algebraic methods in solving problems 2.7 Apply calculus methods in solving problems 2.8 Design a questionnaire 2.9 Use statistical methods to make an inference 2.10 Conduct an experiment to investigate a situation using statistical methods 2.11 Evaluate a statistically based report 2.12 Apply probability methods in solving problems 2.13 Investigate a situation involving 	 2.1 Carry out a practical investigation in a biology context, with supervision 2.2 Analyse the biological validity of information presented to the public 2.3 Demonstrate understanding of adaptation of plants or animals to their way of life 2.4 Demonstrate understanding of life processes at the cellular level 2.5 Demonstrate understanding of genetic variation and change 2.6 Investigate a pattern in an ecological community, with supervision 2.7 Demonstrate understanding of gene expression 2.8 Investigate biological material at the microscopic level Chemistry: 2.1 Carry out quantitative analysis 2.2 Carry out procedures to identify ions present in solution 		 2.2 Demonstrate understanding of how a large business responds to external factors. 2.6 Carry out, review and refine a business activity within a community context with guidance Economics: 2.1 Analyse inflation using economic concepts and models 2.2 Analyse international trade using economic concepts and models 2.3 Analyse economic growth using economic concepts and models 2.4 Analyse unemployment using economic concepts and models 2.5 Analyse statistical data relating to two contemporary economic issues 2.6 Analyse how government policies and contemporary economic issues interact 	
	2.1 Undertake brief development to address an issue 2.2 Select and use planning tools to manage the development of an outcome 2.3 Develop a conceptual design for an outcome 2.4 Undertake effective development to make and trial a prototype 2.5 Demonstrate understanding of how technological modelling supports risk management 2.6 Demonstrate understanding of the role of material evaluation	issue for families in New Zealand 2.4 Evaluate sustainable food related practices 2.5 Analyse practices to enhance well-being used in care provision in the community 2.6 Evaluate health promoting strategies designed to address a nutritional need Physical Education: (NB) 2.1 Examine the role and significance of physical activity in the lives of young people in New Zealand	2.3 Discuss a drama or theatre form or period with reference to a text 2.5 Examine the work of a playwright 2.6 Perform a substantial acting role in a scripted production 2.7 Discuss drama elements, techniques, conventions and technologies within live performance Music: 2.1 Perform two substantial pieces of music as a featured soloist	elements of chance using a simulation 2.14 Apply systems of equations in solving problems	 2.3 Demonstrate understanding of the chemistry used in the development of a current technology 2.4 Demonstrate understanding of bonding, structure, properties and energy changes 2.5 Demonstrate understanding of the properties of selected organic compounds 2.6 Demonstrate understanding of chemical reactivity 2.7 Demonstrate understanding of oxidation-reduction Physics: 		2.7 Analyse a contemporary economic issue of special interest using economic concepts and models History: 2.1 Carry out an inquiry of an historical event or place that is of significance to New Zealanders 2.2 Examine an historical event or place that is of significance to New Zealanders 2.3 Examine sources of an historical event that is of significance to New Zealanders	

Key				
	Externally Assessed			
NB	The subject area does not have externally assessed material			

	Ngā Marautanga							
<u>Hangarau</u>	<u>Hauora</u>	Ngā Toi	<u>Pāngarau</u>	<u>Pūtaiao</u>	Te Reo Rangatira	<u>Tikanga-ā-lwi</u>		
in product development 2.7 Demonstrate understanding of redundancy and reliability in technological systems	2.2 Demonstrate understanding of how and why biophysical principles relate to the learning of physical skills	Perform a substantial piece of music as a featured soloist on a second instrument		2.1 Carry out a practical physics investigation that leads to a non-linear mathematical relationship		2.4 Interpret different perspectives of people in an historical event that is of significance to New Zealanders		
2.8 Demonstrate understanding of sociocultural factors, and how competing priorities are managed, in technology.	2.3 Demonstrate understanding of the application of biophysical principles to training for physical activity	Demonstrate ensemble skills by performing a substantial piece of music as a member of a group 2.4 Compose two substantial		Demonstrate understanding of physics relevant to a selected context Demonstrate understanding of		2.5 Examine causes and consequences of a significant historical event 2.6 Examine how a significant		
Demonstrate understanding of the nature of technological outcomes. 2.10 Demonstrate understanding of	2.4 Perform a physical activity in an applied setting2.5 Examine the significance for self, others and society of a	pieces of music 2.5 Demonstrate aural understanding through written representation		waves 2.4 Demonstrate understanding of mechanics		historical event affected New Zealand society		
sustainability in design 2.11 Demonstrate understanding of advanced concepts related to human factors in design.	sporting event, a physical activity, or a festival 2.6 Evaluate leadership strategies that contribute to the effective	Demonstrate knowledge of conventions in a range of music scores Investigate an aspect of New		2.5 Demonstrate understanding of atomic and nuclear physics 2.6 Demonstrate understanding of electricity and electromagnetism		Geography: Demonstrate geographic understanding of a large natural environment		
2.12 Demonstrate understanding of advanced concepts used in manufacturing. 2.13 Undertake development and	functioning of a group 2.7 Analyse the application of risk management strategies to a challenging outdoor activity	Zealand music Media Studies:		Earth and Space Science:		2.2 Demonstrate geographic understanding of an urban pattern2.3 Demonstrate geographic		
implementation of an effective manufacturing process.	2.8 Consistently demonstrate social responsibility through applying a social responsibility model in physical activity	Demonstrate understanding of the relationship between a media product and its audience Produce a design and plan for		2.1 Carry out a practical Earth and Space Science investigation 2.2 Examine an Earth and Space Science issue and the validity of the information		understanding of differences in development 2.4 Apply geography concepts and skills to demonstrate		
Digital Technologies: 2.40 Demonstrate understanding of advanced concepts relating to managing shared information within information systems	2.9 Examine the implementation and outcome(s) of a physical activity event or opportunity 2.10 Analyse group processes in	a developed media product using a range of conventions 2.6 Complete a developed media product from a design and plan		communicated to the public 2.3 Investigate geological processes in a New Zealand locality		understanding of a given environment 2.5 Conduct geographic research with guidance		
2.41 Implement advanced procedures to produce a specified digital information outcome with dynamically	physical activity	using a range of conventions Visual Arts:		2.4 Investigate how organisms survive in an extreme environment		2.6 Explain aspects of a contemporary New Zealand geographic issue 2.7 Explain aspects of a		
linked data 2.42 Demonstrate understanding of advanced concepts of digital		2.1 Demonstrate an understanding of methods and ideas from established practice appropriate to design		2.5 Demonstrate understanding of the causes of extreme Earth events in New Zealand 2.6 Demonstrate understanding of		geographic topic at a global scale 2.8 Apply spatial analysis, with guidance, to solve a		
media 2.43 Implement advanced procedures to produce a specified digital media outcome		2.1 Demonstrate an understanding of methods and ideas from established practice appropriate to painting		stars and planetary systems 2.7 Demonstrate understanding of physical principles related to the Earth System		geographic problem Media Studies:		
2.44 Demonstrate understanding of advanced concepts from computer science. 2.45 Construct a plan for an		2.1 Demonstrate an understanding of methods and ideas from established practice appropriate to photography		Education for Sustainability: 2.1 Undertake a personal action,		Demonstrate understanding of narrative in media texts. Demonstrate understanding of representation in the media.		
advanced computer program for a specified task. 2.46 Construct an advanced computer program for a		2.1 Demonstrate an understanding of methods and ideas from established practice appropriate to printmaking		with reflection, that contributes to a sustainable future 2.2 Explain how human activity in a biophysical environment has		2.4 Demonstrate understanding of an aspect of a media genre. 2.7 Demonstrate understanding of		
specified task. 2.47 Demonstrate understanding of advanced concepts used in the construction of electronic		Demonstrate an understanding of methods and ideas from established practice appropriate to sculpture		consequences for a sustainable future 2.3 Demonstrate understanding of how different personal values		an ethical issue in the media. 2.8 Write developed media text for a specific target audience.		
environments. 2.48 Implement advanced interfacing procedures in a		2.2 Use drawing methods to apply knowledge of conventions appropriate to design		have implications for a sustainable future 2.4 Demonstrate understanding of		Social Studies: 2.1 Demonstrate understanding of		
specified electronic environment. 2.49 Implement advanced		2.2 Use drawing methods to apply knowledge of conventions appropriate to painting		initiatives that contribute to a sustainable future 2.5 Develop a collaborative		conflict(s) arising from different cultural beliefs and ideas 2.2 Conduct a reflective social		

Key				
	Externally Assessed			
NB	The subject area does not have externally assessed material			

Ngā Marautanga						
<u>Hangarau</u>	<u>Hauora</u>	Ngā Toi	<u>Pāngarau</u>	<u>Pūtaiao</u>	Te Reo Rangatira	<u>Tikanga-ā-lwi</u>
techniques in constructing a				response that promotes a		inquiry
specified advanced electronic and embedded system.		2.2 Use drawing methods to apply knowledge of conventions appropriate to photography		sustainable future, in relation to a current issue		2.3 Describe how cultural conflict(s) can be addressed
2.50 Demonstrate understanding of local area network technologies.		2.2 Use drawing methods to apply knowledge of conventions appropriate to printmaking		2.6 Demonstrate understanding of aspects of sustainability in different contexts		Describe personal involvement in a social action related to rights and responsibilities
2.51 Implement procedures for administering a local area network.		2.2 Use drawing methods to apply knowledge of conventions appropriate to sculpture				Describe a social action that enables communities and/or nations to meet responsibilities and exercise rights
Construction and Mechanical Technologies:		2.3 Develop ideas in a related series of drawings appropriate to established design practice				Education for Sustainability:
2.20 Implement advanced procedures using resistant materials to make a specified product with special features.		Develop ideas in a related series of drawings appropriate to established painting practice Develop ideas is a related.				2.1 Undertake a personal action, with reflection, that contributes to a sustainable future
Implement advanced procedures using textile materials to make a specified product with special features.		2.3 Develop ideas in a related series of drawings appropriate to established photography practice				2.2 Explain how human activity in a biophysical environment has consequences for a sustainable future
2.22 Demonstrate understanding of advanced concepts used to make products.		2.3 Develop ideas in a related series of drawings appropriate to established printmaking practice				2.3 Demonstrate understanding of how different personal values have implications for a sustainable future
Demonstrate understanding of advanced concepts used to make textile products.		2.3 Develop ideas in a related series of drawings appropriate to established sculpture practice				2.4 Demonstrate understanding of initiatives that contribute to a sustainable future
2.24 Demonstrate understanding of advanced concepts related to structural frameworks. 2.25 Demonstrate understanding of		2.4 Produce a systematic body of work that shows understanding of art making conventions and ideas within design				2.5 Develop a collaborative response that promotes a sustainable future, in relation to a current issue
advanced concepts related to machines. 2.26 Make advanced adaptations to a pattern to change the		2.4 Produce a systematic body of work that shows understanding of art making conventions and ideas within painting				2.6 Demonstrate understanding of aspects of sustainability in different contexts
structural and style features of a design.		2.4 Produce a systematic body of work that shows understanding of art making conventions and				Religious Studies: 2.1 Explain a significant theme in a
Processing Technologies: 2.60 Implement advanced		ideas within photography 2.4 Produce a systematic body of work that shows understanding				sacred text within a religious tradition.
procedures to process a specified product.		of art making conventions and ideas within printmaking				2.2 Explain the changes in an expression(s) of a religious tradition.
2.61 Demonstrate understanding of advanced concepts used in processing. 2.62 Demonstrate understanding of advanced concepts used in		2.4 Produce a systematic body of work that shows understanding of art making conventions and ideas within sculpture				2.3 Explain how a contemporary social action derives from the ethical principles of a religious tradition.
preservation and packaging for product storage.		2.5 Produce a resolved work that demonstrates control of skills appropriate to cultural conventions				2.4 Explain the key beliefs within two religious traditions in relation to a significant religious question
		Art History:				
		2.1 Examine the effects of formal elements of art works.				
		2.2 Examine the meanings conveyed by art works.				
		2.3 Examine the influence of context(s) on art works				

	Key				
	Externally Assessed				
NB	The subject area does not have externally assessed material				

Ngā Marautanga						
<u>Hangarau</u>	<u>Hauora</u>	<u>Ngā Toi</u>	<u>Pāngarau</u>	<u>Pūtaiao</u>	Te Reo Rangatira	<u>Tikanga-ā-lwi</u>
		2.4 Examine how media are used to create effects in art works				