

Compatibility of Californian content standards with New Zealand Year 12 curriculum 2005/2006

These charts are intended to show how New Zealand assessed content covers the Californian teaching programme.

If you would like more detailed information about the content of a particular achievement standard, go to www.nzqa.govt.nz, click on the tab NCEA, and go to the cream box headed Search Standards and Assessments. Fill in the 5 digit number of the achievement standard in the top box, find Achievement Standard on the next drop down menu and Level 2 on the bottom drop down menu.

All assessments are achievement standards unless otherwise indicated.

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Theatre		
1.0 Artistic Perception	90304 Apply knowledge of Drama processes and performance	This achievement standard requires applying knowledge of drama and drama processes in a new context, and responding to and making judgements about drama, drama processes and performance
2.0 Creative Expression	90299 Apply drama techniques in an improvised group context	This achievement standard requires applying drama techniques involving a combination of voice, body, movement and use of space in an improvised group context.
	90300 Apply drama techniques in a group within a scripted context	This achievement standard requires applying drama techniques involving a combination of voice, body, movement and use of space to interpret and present a scripted drama.
	90303 Perform an acting or technical or production role in a significant production	This achievement standard requires developing and sustaining a substantial acting, technical or production role for an audience.
3.0 Historical and Cultural Context	90302 Demonstrate knowledge of drama/theatre of a form or period through performing a role in a presentation	This achievement standard requires the demonstration of applied knowledge of a drama/theatre form or period through the identification and referencing of its features within a presentation that includes appropriate performance.
	90304 Apply knowledge of Drama processes and production	This achievement standard requires applying knowledge of drama and drama processes in a new context, and responding to and making judgements about drama, drama processes and performance.
4.0 Aesthetic valuing	90304 Apply knowledge of Drama processes and production	This achievement standard requires applying knowledge of drama and drama processes in a new context, and responding to and making judgements about drama, drama processes and performance.
5.0 Connections, Relationships, Applications		
Visual Art		
1.0 Artistic Perception and	90233 Research information methods and ideas in the context of a drawing study in painting	This achievement standard requires researching and documenting methods and ideas relating to art and artworks, and applying them in the context of a drawing study in painting. It involves the use of drawing materials, tools, techniques and processes appropriate to purpose in that context.
2.0 Creative Expression		
	90476 Generate and develop drawing items using	This achievement standard requires generating and

	drawing processes and procedures	developing ideas, using drawing methods related to established practice, and using drawing materials, processes and techniques with skills appropriate to painting.
	90474 Research information methods and ideas in the context of a drawing study in design	This achievement standard requires researching and documenting methods and ideas relating to art and artworks, and applying them in the context of a drawing study in design. It involves the use of drawing materials, tools, techniques and processes appropriate to purpose in that context.
	90234 Generate and develop ideas using drawing processes and procedures in sculptural practice	This achievement standard requires generating and developing ideas, using drawing methods related to established practice, and using drawing materials, processes and techniques with skills appropriate to sculpture
3.0 Historical and Cultural Context	As above + Art History course would develop understandings	
	90277 Analyse art works	This achievement standard involves the analysis of art works through the descriptions of the key characteristics of selected art works and the effects of these characteristics in different art works
	90228 Examine subjects and themes in art	This achievement standard involves the examination of subjects and themes in art by the description of the subject matter and the identification of the themes of selected art works.
	90229 Examine techniques used in art	This achievement standard involves the examination of techniques used in art by the identification and description of a range of techniques and their effects.
	90230 Examine an art movement	This achievement standard involves the examination of a selected art movement by identifying the key characteristics of the art movement and the description of the contexts of the art movement.
	90231 Research an art history topic	This achievement standard involves researching an art history topic and presenting an informed response
4.0 Aesthetic valuing	90232 Examine art in the environment	This achievement standard involves the examination of art works in their environmental contexts by describing their functions and explaining influences on them.
5.0 Connections, Relationships, Applications	Art + Art History achievement standards would develop understandings	

English		
Californian Content Standard	New Zealand Achievement Standard	Description of New Zealand standards
Reading		
1.0 Word Analysis, Fluency and Systematic Vocabulary Development	90381 Investigate a language or literature topic (Extension)	This achievement standard requires investigation of an English language or literature in English topic by proposing research question(s), selecting relevant information from a range of referenced resources and presenting accurate information, and drawing conclusions, in written form.
2.0 Reading comprehension	90380 Read unfamiliar texts	This achievement standard requires close reading of a range of unfamiliar texts and analysing the ideas and language features.
3.0 Literary response and analysis	90377 Read, study and analyse extended written text	This achievement standard involves previous reading and study of at least one extended written text (eg novel, drama script, non-fiction), and writing an analysis that shows understanding of ideas and techniques in the text(s).
	90378 Read, study and analyse short written texts	This achievement standard involves previous reading and study of at least two short written texts of the same or different genre (eg poetry, short stories, magazine articles) and writing an analysis that shows understanding of ideas and techniques in the text(s).
	90379 Read study and analyse visual text	This achievement standard involves previous viewing and study of a visual text (eg film, television programme, drama production, or electronic text such as a website), or listening to and study of an oral text (eg radio programme/drama, or audio performance), and writing an analysis of aspects of the text.
	12905 Wide reading	People credited with this unit standard are able to read an inclusive variety of written texts and record the reading experience.
Writing		
1.0 Writing strategies – <i>Organisation and focus/Evaluation and revision</i>	90375 Produce crafted and developed creative writing	This achievement standard requires, drafting, reworking, and presenting writing that develops and sustains imaginative and creative idea(s); is crafted to create effects; structured appropriately for the audience, purpose, and text type; and uses writing conventions accurately.
	90376 Produce crafted and developed formal writing	This achievement standard requires: drafting, reworking,

<p><i>Research and Technology</i></p>	<p>90381 Investigate a language or literature topic (Extension)</p>	<p>and presenting writing that: develops and supports ideas in formal, transactional writing; is crafted to create effects; structured appropriately for the audience, purpose, and text type; and uses writing conventions accurately.</p>
<p>2.0 Writing applications <i>Write fictional, autobiographical or biographical narratives, write reflective compositions</i></p>	<p>90375 Produce crafted and developed formal writing</p>	<p>This achievement standard requires investigation of an English language or literature in English topic by proposing research question(s), selecting relevant information from a range of referenced resources, and presenting accurate information, and drawing conclusions, in written form</p>
<p><i>Write responses to literature</i></p>	<p>90377 Read, study and analyse extended written texts</p>	<p>This achievement standard involves previous reading and study of at least one extended written text (eg novel, drama script, non-fiction), and writing an analysis that shows understanding of ideas and techniques in the text(s).</p>
	<p>90378 Read, study and analyse short written texts</p>	<p>This achievement standard involves previous reading and study of at least two short written texts of the same or different genre (eg poetry, short stories, magazine articles) and writing an analysis that shows understanding of ideas and techniques.</p>
	<p>90379 Study and analyse visual texts</p>	<p>This achievement standard involves previous reading and study of at least two short written texts of the same or different genre (eg poetry, short stories, magazine articles) and writing an analysis that shows understanding of ideas and techniques in the text(s).</p>
<p>2.4 Write historical investigation reports</p>	<p>Recommendation: History 90465 Plan and carry out an historical inquiry</p>	<p>This achievement standard requires defining an area of historical inquiry, planning the inquiry, selecting and recording relevant historical evidence from a range of sources and evaluating the inquiry process.</p>
<p>2.5 Write job applications and resumes</p>	<p>Recommendation: Employment studies Unit Standard 504 Plan and produce a Curriculum Vitae</p>	<p>People credited with this unit standard are able to prepare and produce the CV.</p>
<p>2.6 Deliver multimedia presentations</p>	<p>90381 Deliver a presentation using visual and oral techniques</p>	<p>This achievement standard requires investigation of an English language or literature in English topic by proposing research question(s), selecting relevant information from a</p>

		range of referenced resources, and presenting accurate information, and drawing conclusions, in written form.
Written and oral language conventions		
1.0 Listening and speaking strategies using oral and visual techniques	90380 Read unfamiliar texts	All achievement standards require students to be able to produce work free of intrusive errors Ideas and language features of <i>texts</i> would include methods or procedures used in crafting and shaping text, eg oral features (such as volume, pitch, emphasis)
2.0 Speaking applications	90374 Deliver a presentation using oral and visual techniques	This achievement standard requires the preparation and delivery of an oral presentation, presenting material clearly, using appropriate oral and visual language and presentation techniques, for a specific audience and purpose.
2.2 Deliver oral reports on historical investigations	Recommendation: History 90465 Plan and carry out an historical inquiry	This achievement standard requires the preparation and delivery of an oral presentation, presenting material clearly, using appropriate oral and visual language and presentation techniques, for a specific audience and purpose. This achievement standard requires defining an area of historical inquiry, planning the inquiry, selecting & recording relevant historical evidence from a range of sources and evaluating the inquiry process.

Mathematics		
Californian Content Standard	New Zealand Achievement Standard	Description of New Zealand standards
Algebra I	90284 Manipulate algebraic expressions and solve equations	This achievement standard requires the manipulation of algebraic expressions and the solution of equations.
Geometry	90287 Solve problems using a coordinate geometry method	This achievement standard requires the use of coordinate geometry methods.
Algebra II	90284 Manipulative algebraic expressions and solve equations	This achievement standard requires the manipulation of algebraic expressions and the solution of equations.
Trigonometry	90284 Manipulate algebraic expressions and solve equations	This achievement standard requires the manipulation of algebraic expressions and the solution of equations
	90287 Solve problems using a coordinate geometry method	This achievement standard requires the use of coordinate geometry methods.
Mathematical Analysis	90284 Manipulate algebraic expressions and solve equations	This achievement standard requires the manipulation of algebraic expressions and the solution of equations
	90287 Solve problems using a coordinate geometry method	This achievement standard requires the use of coordinate geometry methods.
Linear Algebra	90284 Manipulate algebraic expressions and solve equations	This achievement standard requires the manipulation of algebraic expressions and the solution of equations.
Advanced Placement Probability and Statistics	90288 Select a sample and make inferences from the data	This achievement standard requires selecting a sample and making inferences about the population based on appropriate sample statistics.
	90289 Simulate probability situations, and apply the normal distribution	This achievement standard requires simulating probability situations & applying the normal distribution
Calculus	90286 Find and use straight forward derivatives and integrals	This achievement standard requires finding and using straightforward derivatives and integrals.

Science		
California Content Standards	New Zealand Achievement Standards	Description of New Zealand Standard
Physics		
Motion and Forces	90255 Demonstrate understanding of mechanics	This achievement standard involves knowledge and understanding of phenomena, concepts, principles and relationships related to motion, force, momentum and energy, and the use of appropriate methods to solve related problems.
Conservation of Energy and Momentum	90255 Demonstrate understanding of mechanics	This achievement standard involves knowledge and understanding of phenomena, concepts, principles and relationships related to motion, force, momentum and energy, and the use of appropriate methods to solve related problems.
Heat and Thermodynamics	90255 Demonstrate understanding of mechanics	This achievement standard involves knowledge and understanding of phenomena, concepts, principles and relationships related to motion, force, momentum and energy, and the use of appropriate methods to solve related problems.
Waves	90254 Demonstrate understanding of waves	This achievement standard involves knowledge and understanding of phenomena, concepts, principles and relationships related to waves, and the use of appropriate methods to solve related problems.
Electric and Magnetic Phenomena	90255 Demonstrate understanding of mechanics	This achievement standard involves knowledge and understanding of phenomena, concepts, principles and relationships related to motion, force, momentum and energy, and the use of appropriate methods to solve related problems.
	90257 Demonstrate understanding of DC electricity and electromagnetic effects	This achievement standard involves knowledge and understanding of phenomena, concepts, principles, and relationships related to electricity and electromagnetism, and the use of appropriate methods to solve related problems.

Science		
California Content Standards	New Zealand Achievement Standards	Description of New Zealand Standard
Chemistry		
Atomic and molecular structure	90308 Describe the nature of structure and bonding in different substances	This achievement standard involves describing the bonding in simple molecules and the nature of various types of solids.
Chemical bonds	90308 Describe the nature of structure and bonding in different substances	This achievement standard involves describing the bonding in simple molecules and the nature of various types of solids.
Conservation of Matter and Stoichiometry	90763 Solve simple quantitative chemical problems	This achievement standard involves solving simple quantitative chemical problems using the relationships $n=m/M$ and $c=n/V$.
Gases and their properties	Not covered during this year	
Acids and bases	90306 Carry out an acid-base volumetric analysis	This achievement standard involves carrying out an acid-base volumetric analysis using a given titration procedure.
Solutions	90306 Carry out an acid-base volumetric analysis 90312 Solve simple quantitative chemical problems	This achievement standard involves carrying out procedures and using knowledge of precipitation reactions to determine ions present in solution
Chemical thermodynamics	90310 Describe principles of chemical reactivity	This achievement standard involves the understanding of principles of chemical reactivity by describing and using simple thermochemical and equilibrium information.
Reaction rates	90310 Describe principles of chemical reactivity	This achievement standard involves the understanding of principles of chemical reactivity by describing and using simple thermochemical and equilibrium information.
Chemical equilibrium	90310 Describe principles of chemical reactivity	This achievement standard involves the understanding of principles of chemical reactivity by describing and using simple thermochemical and equilibrium information.
Organic Chemistry and Biochemistry	90309 Describe the structural formulae and reactions of compounds containing selected organic functional groups	This achievement standard involves describing the structural formulae and reactions of compounds containing selected organic functional groups.
Nuclear Processes	Not covered	

Science		
California Content Standards	New Zealand Achievement Standards	Description of New Zealand Standard
Biology		
Cell Biology	90464 Identify and describe cell structure and processes	This achievement standard involves describing cell structure and function
Genetics	90459 Describe the concepts and processes that can lead to genetic variation and change	This achievement standard involves describing biological concepts and processes that relate to genetic variation and change.
Ecology	90461 Describe the concepts and processes relating to ecology	This achievement standard involves describing biological concepts and processes relating to ecology.
Evolution	90462 Describe diversity in structure and function of animals	This achievement standard involves describing diversity in aspects of the structure and function of multi-cellular animals in relation to a biological process.
	90463 Describe diversity in structure and function of plants	This achievement standard involves describing diversity in aspects of the structure and function of multi-cellular plants in relation to a biological process.
Physiology	90457 Carry out a biological investigation with supervision	This achievement standard involves carrying out a practical biological investigation, with supervision, by planning the investigation, collecting and processing the data, and interpreting and reporting the findings.
	90769 Research the interaction between humans and an aspect of biology.	This achievement standard involves researching the impact of human activities on an ecosystem or researching how an applied biology technique is used to meet a human need or demand.
Earth Science		
Investigation and Experimentation	Covered within Physics, Biology and Chemistry courses	

Social Sciences:		
Californian Content Standard	New Zealand Achievement Standard	Description of New Zealand standards
Economics		
12.1 Students understand common economic terms and concepts and economic reasoning	90758 Define and describe economic concepts and terms in relation to given issues	This achievement standard involves the definition and description of economic concepts and terms in relation to given issues.
12.2 Students analyze the elements of America's market economy in a global setting	90758 Define and describe economic concepts and terms in relation to given issues	This achievement standard involves the definition and description of economic concepts and terms in relation to given issues.
	90759 Use of economic models to illustrate given issues	This achievement standard involves using economic models to illustrate aspects of given issues
	90761 Process and interpret statistical data in relation to given issues	This achievement standard involves the processing and interpretation of statistical data in relation to given economic issues.
	90762 Describe economic effects of given issues	This achievement standard involves describing economic effects of given issues.
	90238 Demonstrate an awareness of government policies related to economic issues	This achievement standard involves describing how government policies are intended to achieve objectives related to the given issues, and the effects of these policies on other economic issues.
12.3 Students analyze the influence of the federal government on the American economy	90238 Demonstrate an awareness of government policies related to economic issues	This achievement standard involves describing how government policies are intended to achieve objectives related to the given issues, and the effects of these policies on other economic issues.
12.4 Students analyze the elements of the U.S labour market in a global setting	90758 Define and describe economic concepts and terms in relation to given issues	This achievement standard involves the definition and description of economic concepts and terms in relation to given issues.
	90759 Use economic models to illustrate aspects of given issues	This achievement standard involves using economic models to illustrate aspects of given issues
	90761 Process and interpret statistical data in relation to given economic issues	This achievement standard involves the processing and interpretation of statistical data in relation to given economic issues.
	90762 Describe economic effects of given issues	This achievement standard involves describing economic effects of given issues

	90238 Demonstrate an awareness of government policies related to economic issues	This achievement standard involves describing how government policies are intended to achieve objectives related to the given issues, and the effects of these policies on other economic issues.
History		
<p>There is no correlation in the content of the Year 12 New Zealand course and the Californian Grade 12 course. Wellington High School focuses on the following 4 topics</p> <ul style="list-style-type: none"> • Origins of World War I • Russian Revolution • Ghandi and Indian Independence • Wellington settlement 	<p>90465 Plan and carry out an historical inquiry</p> <p>90466 Communicate an understanding of historical ideas</p> <p>90467 Examine evidence in historical sources</p> <p>90468 Examine and demonstrate empathy for the perspectives of people's lives in an historical setting</p> <p>90469 Examine a force of movement that influenced people's lives in an historical setting, in an essay</p> <p>90470 Examine individual or group identity in an historical setting, in an essay</p>	<p>This achievement standard requires defining an area of historical inquiry, planning the inquiry, selecting and recording relevant historical evidence from a range of sources and evaluating the inquiry process</p> <p>This achievement standard requires clearly communicating key historical ideas, with accurate supporting evidence, to demonstrate understanding of the historical context, applying features of the appropriate historical format and/or style of the mode of communication, and using appropriate historical conventions.</p> <p>This achievement standard requires identifying historical facts, ideas and points of view, describing historical relationships indicated by evidence, and considering the usefulness and/or reliability of evidence, in historical sources.</p> <p>This achievement standard requires describing and explaining the perspectives and responses of people in an historical setting, and demonstrating empathy with the people in an imaginative manner.</p> <p>This achievement standard requires writing an essay examining cause(s) and/or consequence(s) and/or event(s) related to a force or movement in history, and the influence on people's lives of the force or movement.</p> <p>This achievement standard requires writing an essay describing factors that have contributed to the formation of individual or group identity, and ways the identity was expressed, in an historical setting, and describing characteristics of this individual or group identity.</p>