

Climate change and how it affects the Gold Coast (Excursion).

Economics and Business	Geography	Science	Maths
Biology	Biology AND Earth and Environmental Science		Earth and Environmental Science

Year 7	Year 8	Year 9	Year 10	Senior	
ACHGK038 The ways that flows of water connect places as it moves through the environment and the way this affects places.	ACHGK048 The different types of landscapes and their distinctive landform features.	ACHGK069 The effects of people's travel, recreational, cultural or leisure choices on places, and the implications for the future of these places.	ACHGK070 The human-induced environmental changes that challenge sustainability.	ACHGE001 Formulates geographical inquiry questions.	ACHGE002 Plans a geographical inquiry with clearly defined aims and appropriate methodology.
ACHGK042 The causes, impacts and responses to an atmospheric or hydrological hazard.	ACHGK051 The human causes and effects of landscape degradation.	ACHGS063 Develop geographically significant questions and plan an inquiry that identifies and applies appropriate geographical methodologies and concepts.	ACHGK073 The application of human-environment systems thinking to understanding the causes and likely consequences of the environmental change being investigated.	ACHGE003 Collects geographical information incorporating ethical protocols from a range of primary and secondary sources.	ACHGE004 Records observations in a range of graphic representations using spatial technologies and information and communication technologies.
ACHGS047 Develop geographically significant questions and plan an inquiry, using appropriate geographical methodologies and concepts.	ACHGK052 The ways of protecting significant landscapes.	ACHGS064 Collect, select, record and organise relevant geographical data and information, using ethical protocols, from a range of appropriate primary and secondary sources.	ACHGK074 The application of geographical concepts and methods to the management of the environmental change being investigated.	ACHGE005 Evaluates the reliability, validity and usefulness of geographical sources and information.	ACHGE006 Analyses geographical information and data from a range of primary and secondary sources and a variety of perspectives to draw reasoned conclusions and make generalisations.
ACHGS048 Collect, select and record relevant geographical data and information, using ethical protocols, from appropriate primary and secondary sources.	ACHGK053 The causes, impacts and responses to a geomorphological hazard.	ACHGS068 Apply geographical concepts to synthesise information from various sources and draw conclusions based on the analysis of data and information, taking into account alternative points of view.	ACHGK075 The application of environmental economic and social criteria in evaluating management responses to the change.	ACHGE007 Identifies and analyses trends and patterns, infers relationships, and makes predictions and inferences.	ACHGE008 Communicates geographical information, ideas, issues and arguments using appropriate written and/or oral, cartographic and graphic forms.

ACHGS052 Apply geographical concepts to draw conclusions based on the analysis of the data and information collected.	ACHGS055 Develop geographically significant questions and plan an inquiry using appropriate geographical methodologies and concepts.	ACHGS070 Present findings, arguments and explanations in a range of appropriate communication forms, selected for their effectiveness and to suit audience and purpose; using relevant geographical terminology, and digital technologies as appropriate.	ACHGS072 Develop geographically significant questions and plan an inquiry that identifies and applies appropriate geographical methodologies and concepts.	ACHGE009 Uses geographical language in appropriate contexts to demonstrate geographical knowledge and understanding.	ACHGE010 Applies generalisations to evaluate alternative responses to geographical issues at a variety of scales.
ACHGS053 Present findings, arguments and ideas in a range of communication forms selected to suit a particular audience and purpose; using geographical terminology and digital technologies as appropriate.	ACHGS056 Collect, select and record relevant geographical data and information, using ethical protocols, from appropriate primary and secondary sources.	ACMSP228 Identify everyday questions and issues involving at least one numerical and at least one categorical variable, and collect data directly and from secondary sources.	ACHGS073 Collect, select, record and organise relevant data and geographical information, using ethical protocols, from a range of appropriate primary and secondary sources.	ACHGE011 Proposes individual and collective action, taking into account environmental, social and economic factors; and predicts the outcomes of the proposed action.	ACHGE012 An overview of the nature of natural hazards (atmospheric, hydrological, and geomorphic) and ecological hazards.
ACHGS054 Reflect on their learning to propose individual and collective action in response to a contemporary geographical challenge, taking account of environmental, economic and social considerations, and predict the expected outcomes of their proposal.	ACHGS057 Evaluate sources for their reliability and usefulness and represent data in a range of appropriate forms, for example, climate graphs, compound column graphs, population pyramids, tables, field sketches and annotated diagrams, with and without the use of digital and spatial technologies.	ACMSP283 Compare data displays using mean, median and range to describe and interpret numerical data sets in terms of location (centre) and spread.	ACHGS075 Represent the spatial distribution of geographical phenomena by constructing special purpose maps that conform to cartographic conventions, using spatial technologies as appropriate.	ACHGE013 The concept of risk as applied to natural and ecological hazards.	ACHGE014 The temporal and spatial distribution, randomness, magnitude, frequency and scale of spatial impact of natural and ecological hazards at a global scale.

ACMNA173 Recognise and solve problems involving simple ratios.	ACHGS060 Apply geographical concepts to draw conclusions based on the analysis of the data and information collected.	ACSHE160 People can use scientific knowledge to evaluate whether they should accept claims, explanations or predictions.	ACHGS080 Reflect on and evaluate the findings of the inquiry to propose individual and collective action in response to a contemporary geographical challenge, taking account of environmental, economic and social considerations; and explain the predicted outcomes and consequences of their proposal.	ACHGE015 The role of spatial technologies in the study of natural and ecological hazards.	ACMEM001 Solve practical problems requiring basic number operations.
ACMSP168 Assign probabilities to the outcomes of events and determine probabilities for events.	ACHGS062 Reflect on their learning to propose individual and collective action in response to a contemporary geographical challenge, taking account of environmental, economic and social considerations, and predict the expected outcomes of their proposal.	ACSHE228 The values and needs of contemporary society can influence the focus of scientific research.	ACSIS198 Formulate questions or hypotheses that can be investigated scientifically.	ACMEM017 Use metric units of length, their abbreviations, conversions between them, and appropriate levels of accuracy and choice of units.	ACMEM018 Estimate lengths.
ACSHE119 Scientific knowledge changes as new evidence becomes available, and some scientific discoveries have significantly changed people's understanding of the world.	ACMSP206 Explore the practicalities and implications of obtaining data through sampling using a variety of investigative processes.	ACSIS166 Select and use appropriate equipment, including digital technologies, to systematically and accurately collect and record data.	ACSIS200 Select and use appropriate equipment, including digital technologies, to systematically and accurately collect and record data.	ACMEM019 Convert between metric units of length and other length units.	ACMEM020 Calculate perimeters of familiar shapes, including triangles, squares, rectangles, and composites of these.
ACSHE120 Science and technology contribute to finding solutions to a range of contemporary issues; these solutions may impact on other areas of society and involve ethical considerations.	ACMSP284 Investigate techniques for collecting data, including census, sampling and observation.	ACSIS170 Use knowledge of scientific concepts to draw conclusions that are consistent with evidence.	ACSIS204 Use knowledge of scientific concepts to draw conclusions that are consistent with evidence.	ACMEM021 Use metric units of area, their abbreviations, conversions between them, and appropriate choices of units.	ACMEM022 Estimate the areas of different shapes.

AC SIS125 Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed.	AC MSP292 Represent events in two-way tables and Venn diagrams and solve related problems.	AC SIS171 Evaluate conclusions, including identifying sources of uncertainty and possible alternative explanations, and describe specific ways to improve the quality of the data.	AC SIS205 Evaluate conclusions, including identifying sources of uncertainty and possible alternative explanations, and describe specific ways to improve the quality of the data.	AC MEM027 Use metric units of volume, their abbreviations, conversions between them, and appropriate choices of units.	AC MEM039 Discuss and interpret graphs found in the media and in factual texts.
AC SIS126 In fair tests, measure and control variables, and select equipment to collect data with accuracy appropriate to the task .	AC MSP293 Explore the variation of means and proportions of random samples drawn from the same population.	AC SIS172 Critically analyse the validity of information in secondary sources and evaluate the approaches used to solve problems.	AC SIS206 Critically analyse the validity of information in secondary sources and evaluate the approaches used to solve problems.	AC SBL001 AC SES001 Identify, research and construct questions for investigation; propose hypotheses; and predict possible outcomes.	AC SBL010 AC SES010 Advances in science understanding in one field can influence other areas of science, technology and engineering.
AC SIS129 Construct and use a range of representations, including graphs, keys and models to represent and analyse patterns or relationships, including using digital technologies as appropriate.	AC SHE134 Scientific knowledge changes as new evidence becomes available, and some scientific discoveries have significantly changed people's understanding of the world.	AC SIS174 Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations.	AC SIS208 Communicate scientific ideas and information for a particular purpose, including constructing evidence-based arguments and using appropriate scientific language, conventions and representations.	AC SBL011 AC SES011 The use of scientific knowledge is influenced by social, economic, cultural and ethical considerations.	AC SBL012 AC SES012 The use of scientific knowledge may have beneficial and/or harmful and/or unintended consequences.
AC SIS130 Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusions.	AC SHE226 Science knowledge can develop through collaboration and connecting ideas across the disciplines of science.	AC SSU176 Ecosystems consist of communities of interdependent organisms and abiotic components of the environment; matter and energy flow through these systems.		AC SBL013 AC SES013 Scientific knowledge can enable scientists to offer valid explanations and make reliable predictions.	AC SBL014 AC SES014 Scientific knowledge can be used to develop and evaluate projected economic, social and environmental impacts and to design action for sustainability.
AC SIS130 Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusions.	AC SIS139 Identify questions and problems that can be investigated scientifically and make predictions based on scientific knowledge.			AC SES015 Observation of present day processes can be used to infer past events and processes by applying the Principle of Uniformitarianism.	

ACSIS131 Reflect on the method used to investigate a question or solve a problem, including evaluating the quality of the data collected, and identify improvements to the method.	ACSIS140 Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed.				
	ACSIS145 Summarise data, from students' own investigations and secondary sources, and use scientific understanding to identify relationships and draw conclusion.				
	ACSIS148 Communicate ideas, findings and solutions to problems using scientific language and representations using digital technologies as appropriate.				