NESA Syllabus Outcomes- Stage 5 (Year 9 & 10)

English

NESA Syllabus Outcomes	Achieved	Date	Sign
EN5-RVL-01 uses a range of personal, creative and critical strategies to interpret complex texts			
EN5-URA-01 analyses how meaning is created through the use and interpretation of increasingly complex language forms, features and structures			
EN5-URB-01 evaluates how texts represent ideas and experiences, and how they can affirm or challenge values and attitudes			
EN5-URC-01 investigates and explains ways of valuing texts and the relationships between them			
EN5-ECA-01 crafts personal, creative and critical texts for a range of audiences by experimenting with and controlling language forms and features to shape meaning			
EN5-ECB-01 uses processes of planning, monitoring, revising and reflecting to purposefully develop and refine composition of texts			

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Mathematics

NESA Syllabus Outcomes	Achieved	Date	Sign
MAO-WM-01 develops understanding and fluency in mathematics through exploring and connecting mathematical concepts, choosing and applying mathematical techniques to solve problems, and communicating their thinking and reasoning coherently and clearly			
MA5-FIN-C-01 solves financial problems involving simple interest, earning money and spending money			
MA5-FIN-C-02 solves financial problems involving compound interest and depreciation			
MA5-ALG-C-01 simplifies algebraic fractions with numerical denominators and expands algebraic expressions			
MA5-RAT-P-01 identifies and solves problems involving direct and inverse variation and their graphical representations *(Path: Stn, Adv)*			
MA5-RAT-P-02 analyses and constructs graphs relating to rates of change *(Path: Stn, Adv)*			
MA5-ALG-P-01 simplifies algebraic fractions involving indices, and expands and factorises algebraic expressions *(Path: Adv)*			
MA5-ALG-P-02 selects and applies appropriate algebraic techniques to operate with algebraic fractions, and expands, factorises and simplifies algebraic expressions *(Path: Adv)*			
MA5-IND-C-01 simplifies algebraic expressions involving positive-integer and zero indices, and establishes the meaning of negative indices for numerical bases			
MA5-IND-P-01 applies the index laws to operate with algebraic expressions involving negative-integer indices *(Path: Adv)*			
MA5-IND-P-02 describes and performs operations with surds and fractional indices *(Path: Adv)*			
MA5-EQU-C-01			

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solves linear equations of up to 3 steps, limited to one algebraic fraction			
MA5-EQU-P-01 solves monic quadratic equations, linear inequalities and cubic equations of the form- $ax^3 = k$ *(Path: Adv)*			
MA5-EQU-P-02 solves linear equations of more than 3 steps, monic and non-monic quadratic equations, and linear simultaneous equations *(Path: Adv)*			
MA5-LIN-C-01 determines the midpoint, gradient and length of an interval, and graphs linear relationships, with and without digital tools			
MA5-LIN-C-02 graphs and interprets linear relationships using the gradient/slope-intercept form			
MA5-LIN-P-01 describes and applies transformations, the midpoint, gradient/slope and distance formulas, and equations of lines to solve problems *(Path: Adv)*			
MA5-NLI-C-01 identifies connections between algebraic and graphical representations of quadratic and exponential relationships in various contexts			
MA5-NLI-C-02 identifies and compares features of parabolas and exponential curves in various contexts			
MA5-NLI-P-01 interprets and compares non-linear relationships and their transformations, both algebraically and graphically *(Path: Adv)*			
MA5-POL-P-01 defines, operates with and graphs polynomials and applies the factor and remainder theorems to solve problems *(Path: Adv, Ext)*			
MA5-LOG-P-01 establishes and applies the laws of logarithms to solve problems *(Path: Adv)*			
MA5-FNC-P-01 uses function notation to describe and graph functions of one variable and graphs inequalities in one and 2 variables *(Path: Adv)*			

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MA5-MAG-C-01 solves measurement problems by using scientific notation to represent numbers and rounding to a given number of significant figures			
MA5-TRG-C-01 applies trigonometric ratios to solve right-angled triangle problems			
MA5-TRG-C-02 applies trigonometry to solve problems, including bearings and angles of elevation and depression			
MA5-TRG-P-01 applies Pythagoras' theorem and trigonometry to solve 3-dimensional problems and applies the sine, cosine and area rules to solve 2-dimensional problems, including bearings *(Path: Stn, Adv)*			
MA5-TRG-P-02 establishes and applies the properties of trigonometric functions and finds solutions to trigonometric equations *(Path: Adv)*			
MA5-ARE-C-01 solves problems involving the surface area of right prisms and practical problems involving the area of composite shapes and solids			
MA5-ARE-P-01 applies knowledge of the surface area of right pyramids and cones, spheres and composite solids to solve problems *(Path: Stn, Adv)*			
MA5-VOL-C-01 solves problems involving the volume of composite solids consisting of right prisms and cylinders			
MA5-VOL-P-01 applies knowledge of the volume of right pyramids, cones and spheres to solve problems involving related composite solids *(Path: Stn, Adv)*			
MA5-GEO-C-01 identifies and applies the properties of similar figures and scale drawings to solve problems			
MA5-GEO-P-01 establishes conditions for congruent triangles and similar triangles and solves problems relating to properties of similar figures and plane shapes *(Path: Ext)*			

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MA5-GEO-P-02 constructs proofs involving congruent triangles and similar triangles and proves properties of plane shapes *(Path: Ext)*			
MA5-CIR-P-01 applies deductive reasoning to prove circle theorems and solve related problems *(Path: Ext)*			
MA5-NET-P-01 solves problems involving the characteristics of graphs/networks, planar graphs and Eulerian trails and circuits *(Path: Stn)*			
MA5-DAT-C-01 compares and analyses datasets using summary statistics and graphical representations			
MA5-DAT-C-02 displays and interprets datasets involving bivariate data			
MA5-DAT-P-01 plans, conducts and reviews a statistical inquiry into a question of interest *(Path: Stn, Adv)*			
MA5-PRO-C-01 solves problems involving probabilities in multistage chance experiments and simulations			
MA5-PRO-P-01 solves problems involving Venn diagrams, 2-way tables and conditional probability *(Path: Adv)*			

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Science and Technology

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SC5-WS-01 Working scientifically Observing- selects and uses scientific tools and instruments for accurate observations			
SC5-WS-02 Working scientifically Questioning and predicting- develops questions and hypotheses for scientific investigation			
SC5-WS-03 Working scientifically Planning investigations- designs safe, ethical, valid and reliable investigations			
SC5-WS-04 Working scientifically Conducting investigations- follows a planned procedure to undertake safe, ethical, valid and reliable investigations			
SC5-WS-05 Working scientifically Processing data and information- selects and uses a range of tools to process and represent data			
SC5-WS-06 Working scientifically Analysing data and information- analyses data from investigations to identify trends, patterns and relationships, and draws conclusions			
SC5-WS-07 Working scientifically Problem-solving- selects suitable problem-solving strategies and evaluates proposed solutions to identified problems			
SC5-WS-08 Working scientifically Communicating- communicates scientific arguments with evidence, using scientific language and terminology in a range of communication forms			
SC5-EGY-01 evaluates current and alternative energy use based			

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on ethical and sustainability considerations			
SC5-DIS-01 explains how an understanding of the causes of disease can be used to prevent and manage the spread of disease			
SC5-MAT-01 assesses the uses of materials based on their physical and chemical properties			
SC5-ENV-01 analyses the impact of human activity on the natural world			
SC5-GEV-01 describes the relationship between the diversity of living things and the theory of evolution			
SC5-GEV-02 explains how DNA is responsible for the transmission of heritable characteristics and can be manipulated through genetic technologies			
SC5-RXN-01 describes a range of reaction types			
SC5-RXN-02 explains the factors that affect the rate of chemical reactions			
SC5-WAM-01 describes the features and applications of different forms of waves			
SC5-WAM-02 explains the motion of objects using Newton's laws of motion			
SC5-DA2-01 assesses the use of scientific knowledge and data in evidence-based decisions and when verifying the legitimacy of claims			

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Geography

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GE5-DFC-01 explains how the diverse features and characteristics of a range of places and environments change over time			
GE5-PRI-01 analyses the processes and interactions that transform people, places and environments			
GE5-PER-01 accounts for the perspectives of people and organisations on a range of geographical opportunities and challenges			
GE5-MAN-01 assesses different approaches to the management and protection of places and environments			
GE5-APC-01 analyses how Aboriginal Peoples' Custodianship of Country supports environmental management and enhances Community wellbeing			
GE5-TAP-01 applies and evaluates a range of geographical tools to acquire and process geographical information			
GE5-COM-01 selects and applies concepts and terminology to communicate geographical information for a range of purposes, audiences and contexts			

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History

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HI5-CON-01 accounts for continuity and change over a period of time in relation to a historical context			
HI5-SPE-01 analyses the key features and structures of past societies, historical periods and events			
HI5-CPP-01 accounts for different contexts and perspectives of the past			
HI5-IEP-01 explains how significant ideas and events have shaped the past			
HI5-APP-01 explains Aboriginal Peoples' experiences and perspectives related to their struggle for rights and freedoms			
HI5-SOU-01 integrates evidence from sources to develop historical accounts, explanations and arguments about the past			
HI5-INQ-01 assesses the value and limitations of sources as part of a historical inquiry			
HI5-COM-01 communicates historical arguments using historical terms and concepts for a range of purposes, audiences and contexts			