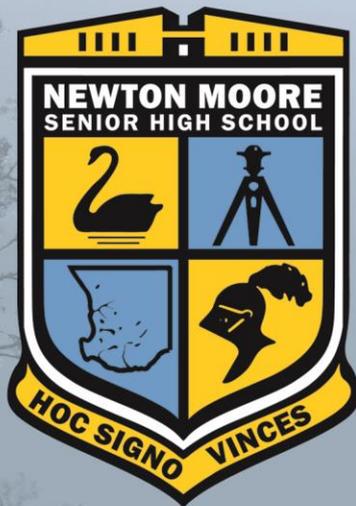


NEWTON MOORE SENIOR HIGH SCHOOL

Achieving Today for Tomorrow



Year 8 Course Selection Handbook
2018

NEWTON MOORE SENIOR HIGH SCHOOL

YEAR 8 COURSE INFORMATION

Students complete subjects from learning areas outlined in the Western Australian Curriculum, which is inclusive of what is prescribed in the Australian Curriculum. These are:

English
Health & Physical Education
Humanities & Social Sciences
Languages
Mathematics
Science
Technology & Enterprise
The Arts

Below you will find the typical timetable structure. Students are automatically placed into classes for English, Mathematics, Science, Humanities & Social Sciences and Health & Physical Education. Students will have a choice of subjects in Languages, The Arts and Technology and Enterprise.

English	4 hours
Health & Physical Education	3 hours
Humanities & Social Sciences	4 hours
Mathematics	4 hours
Science	4 hours
Technology and Enterprise	2 hours
The Arts	2 hours
Languages	2 hours
TOTAL	25 hours

CONTENTS	PAGE
Compulsory Subjects	3
Compulsory electives linked to School Based or Specialist Programs	7
Elective Subjects	8
Health & Physical Education	8
Languages	8
Technology & Enterprise	8
The Arts	9

COMPULSORY SUBJECTS

ENGLISH

In the new Australian Curriculum, the study of English is written as being “central to the learning and development of all young Australians”. It helps create confident communicators, imaginative thinkers and informed citizens. Individuals learn to analyse, understand, communicate with and build relationships with others and with the world around them. The study of English helps young people develop the knowledge and skills needed for education, training and the workplace. It helps them become “ethical, thoughtful, informed and active members of society.” While we are a diverse population, it is important for effective participation in Australian life that we can effectively communicate in Standard Australian English. The study of English also aims to broaden the experience of students by engaging with literature which examines the contributions made to Australian society by its Aboriginal and Torres Strait Islander peoples. We also examine, through literature, Australia’s links to Asia.

Students in Year 8 focus upon consolidating their skills in their written and spoken communication and their understanding of the conventions of language including spelling and grammar. They begin to develop their understanding of the construction of texts which can be written, spoken or multimodal, and in print or visual forms. They continue to develop positive attitudes to regular reading of a variety of texts as part of a structured library program. Students identified as likely to benefit from extension or remediation are placed into the English Enrichment or Literacy Extension programs.

English is organised into three interrelated strands and their substrands which focus on developing students’ knowledge, understanding and skills in the language modes of listening, reading, viewing, speaking and writing:

- Language: knowing about the English language.
- Literature: understanding, appreciating, responding to, analysing and creating literature.
- Literacy: expanding the repertoire of English usage.

HEALTH AND PHYSICAL EDUCATION

All students participate in courses of Health and Physical Education which are interrelated and contribute to the development of healthy, active lifestyles. Learning programs allow students to develop essential knowledge, attitudes, values, and skills required for life. Students are engaged in both physical and classroom activities that allow them to enhance their well-being, now, and in the future. Ability to communicate and cooperate with other students in practical situations and health classes will also be monitored and improved.

Physical Education

This course gives students the opportunity to experience a range of different sports: Aquatics, Touch, Football, Softball, Cricket and Basketball, while developing core skills such as throwing, catching, kicking, hitting and dribbling. Students are also introduced to sporting offensive and defensive strategies and will set fitness goals to maximise their participation levels.

Health Education

Emphasis is placed on students taking ownership of their lifestyle decisions in regards to the importance of living a healthy lifestyle. Areas of study include drug, education and assertive decision making, fitness and exercise (including fitness testing), fitness and nutrition, as well as growth and development (including puberty and adolescence).

Physical Education Clothing

Students are required to change their clothing for Physical Education classes. Students are encouraged to shower after physical activity. For this reason, students will need their own towel and change of items such as underwear, socks etc. All clothing and towels should be labeled with student's name written in a recognisable place. The school sports uniform consists of yellow Physical Education shirt, black shorts, airflow or parasilk. Black tracksuit pants may be worn during cold weather.

NOTE: STUDENTS MUST ARRIVE AND LEAVE SCHOOL IN FULL SCHOOL UNIFORM.

HUMANITIES AND SOCIAL SCIENCES

In Semester One students begin with the study of Geography before moving on to Economics and Business. The concepts of [place](#), [space](#), [environment](#), interconnection, [sustainability](#) and change continue to be developed with a focus on the creation and cultural [significance](#) of landscapes. Spatial change is investigated through the concepts of urbanisation and migration looking at the changing [distribution](#) of population in Australia and Asia. In Economics and Business students look into markets and the factors affecting these.

In Semester Two Students develop their historical understanding through key concepts, including evidence, continuity and change, cause and effect, perspectives, empathy, significance and contestability. Students investigate events and change from 650 AD (CE) – 1750, with a focus on Medieval Europe, discovering the role of knights and castles with an in depth study of The Black Death. In Economics and Business the concept of markets is introduced to further develop students understanding of interdependence, making choices and allocation. They consider how markets work and the rights, responsibilities and opportunities that arise for businesses, consumers and governments.

In Civics and Citizenship students investigate the types of law in Australia and how they are made. They consider the responsibilities and freedoms of citizens, and how Australians can actively participate in their democracy.

LANGUAGES

Year 8 students must choose between Indonesian and Japanese.

Indonesian

This course is suitable for both students who are new to the language and for those who have previous experience. As part of their language learning, students will learn about the culture and modern lifestyle of Indonesians of their own age. Classroom experiences will be designed to meet the needs of students and will include aspects of Indonesian culture such as traditional games, art, ICT and cooking. Students will develop an understanding of what it is like to live in, and travel to, Indonesia. The language skills covered will be realistic and of practical use.

Japanese

This course is suitable for students who are new to the language and for those who have previous language experience. The topics covered within this subject aim to provide students with the ability to initiate and maintain a general conversation in Japanese, as well as acquire an understanding of some of the cultural practices of the Japanese people. Students will study language associated with family, friends and pets, their likes and dislikes, hobbies, Japanese food and table mannerisms, and going places. Students will engage in listening and speaking, reading, viewing and responding, and writing activities in order to meet the outcomes of this course.

MATHEMATICS

In the Mathematics learning area, students learn the essential mathematical skills and knowledge developing the numeracy capabilities needed in their personal, work and civic life and are provided with the fundamentals on which mathematical specialties and professional applications of mathematics are built.

In Year 8 all students' abilities in Mathematics are catered for by students working in ability pathways. All students study the mathematics content strands: Number and Algebra; Measurement and Geometry; and Statistics and Probability. Students are also shown the thinking of mathematics explicit in the proficiency strands: Understanding; Fluency; Problem Solving; and Reasoning.

The proficiency strands understanding, fluency, problem-solving and reasoning are an integral part of mathematics content across the three content strands. The proficiencies reinforce the significance of working mathematically within the content and describe how the content is explored or developed.

At the Year 8 level:

- **understanding** includes describing patterns involving indices and recurring decimals, identifying commonalities between operations with algebra and arithmetic, connecting rules for linear relations with their graphs, explaining the purpose of statistical measures and explaining measurements of perimeter and area
- **fluency** includes calculating accurately with simple decimals, indices and integers; recognising equivalence of common decimals and fractions including recurring decimals; factorising and simplifying basic algebraic expressions and evaluating perimeters and areas of common shapes and volumes of three-dimensional objects
- **problem-solving** includes formulating and modelling practical situations involving ratios, profit and loss, areas and perimeters of common shapes and using two-way tables and Venn diagrams to calculate probabilities
- **reasoning** includes justifying the result of a calculation or estimation as reasonable, deriving probability from its complement, using congruence to deduce properties of triangles, finding estimates of means and proportions of populations.

SCIENCE

In Year 8 Science students will study Biology in the context of life under the microscope and look at a comparison of the systems of a variety of different organisms. In Chemistry, students will study macroscopic properties of matter, elements, compounds plus chemical and physical changes. There is an emphasis on how our understanding of the nature of matter has changed over time. In Physics, they will use the context of renewable energy, investigating the different forms of and efficiency of energy. Earth and Space will be taught with the theme crystallography, studying crystal formation, rocks and soils while studying geological time and resources. In Science Horizons and Engineering Specialist understand strands will be compacted, allowing more time for acceleration and extension of science concepts.

TECHNOLOGY AND ENTERPRISE

DESIGN AND TECHNOLOGIES

Materials - Wood

Students complete a range of practical activities involving the use of wood and other materials. They use different specialist equipment such as the drill press, wood lathes and hand tools to further develop their

skills. Students follow a design process to produce a range of projects including lidded box, candle stick holder, chopping boards and monster trucks and tractors.

Food Specialisations

Students develop food preparation and cooking skills whilst developing an understanding of the choices we make about food every day. This course is hands on, but also has a theoretical component that focuses on hygiene, safety and the ability to work as part of a team in the preparation of food products.

DIGITAL TECHNOLOGIES

Digital Technologies

What skills will be needed to prepare students for the future?

Digital Technologies provides students with the opportunity to develop their critical and computational thinking to solve real world problems. They use different software packages to create solutions to problems and present their findings to others. They explore personal safety issues when using the internet and consider the social and environmental impacts of different digital technologies. Projects include creating apps, web page construction, coding and image manipulation.

Media - Art

This hands on course allows students to experiment with a range of software packages to produce different media products. Students investigate the ways the media influences our attitudes, decisions and behaviours and demonstrate their understanding through their own creative products. Projects include podcasting using Audacity, comic creation using Comic Life 2, advertising with Photoshop and animation with Stop Motion Pro.

The ARTS

Dance

The Dance course is devised to introduce the students to the fundamentals of movement. It will explore the elements of dance, body, space, time and energy. Students will be working on and performing small group and troupe dances. They will also have an opportunity to choreograph their own dances. Never miss a chance to Dance.

Drama

Year 8 students are introduced to improvisation techniques and will participate in a range of Theatresports games and small group drama activities. During the second half of the course, the students perform a fully-scripted play with lighting, sound, costumes and set.

Music

What is 'good' music? That is the burning question! Throughout this course, students will have an opportunity to explore the vast array of popular musical styles and look at where today's music comes from. Theoretical and practical skills will be gained through writing and performing original and existing music.

Music Specialist

Throughout Semester 1 and 2, students study the elements of music, develop existing music skills and create original music. Students are also given the opportunity to study a variety of different styles and types of music present in our everyday lives from cartoon and film music to contemporary music.

All Lower School students who study music and receive instrumental lessons through the school are expected to participate in instrumental and ensemble lessons to adhere to the Instrumental Music School Services policy (IMSS).

- *Instrumental lessons* involve weekly, small group lessons on an instrument. Lessons are held during school hours and are on a rotating roster. It is the students' responsibility to regularly check their lesson times.
- *Ensemble lessons* involve full participation in a school band, including weekly morning rehearsals, various performance engagements during the year and an annual camp.

Visual Arts

Year 8 students are introduced to the making of ART. Students will gain experience in a variety of art skills and techniques. These could include printmaking, drawing, sculpture, textiles, ceramics and painting. Students will also develop skills in investigating ideas and understanding artworks and styles.

APPROVED SPECIALIST PROGRAMS

At Newton Moore Senior High School, students have the opportunity to apply for selection into Department of Education Approved Specialist Programs: Science Horizons or Engineering. These are a unique educational experience offered state wide that brings together highly able students with a passion for science. Both programs cover the required curriculum whilst enriching learning experiences through acceleration and extension according to the needs of the students. Healthy competition between individuals is fostered in a rich learning environment where collaborative extension is encouraged. Lessons cater for high achievers where thinking outside the box is the norm. Students develop team building skills by participating in Science projects, contributing to the running of a Science Fair, competing in Science and Mathematics competitions and presenting and attending workshops, worksites and conferences.

Both Approved Specialist programs provide a strong foundation for successful completion of Senior School Science and Mathematics courses and enhance university entrance into Science and Engineering courses. Expert teachers who have proven competence in their respective fields teach these classes at Newton Moore Senior High School.

These two academic Specialist programs provide a strong foundation for successful completion of Senior School Science and Mathematics courses to increase students' Australian Tertiary Admission Rank (ATAR) and enhance university entrance into Science and Engineering courses. Expert teachers who have proven competence in their respective fields teach these classes.

SCIENCE HORIZONS PROGRAM

Science Horizon students participate in exciting science research projects. These include enrichment research modules on Frog Populations, Macro invertebrate studies and Chemistry of the Wetlands. Students as "Marine Managers" get to work with the Marine Scientists at the Bunbury Dolphin Centre. Research boat trips throughout the year are included. Students develop a data base recording location, photographs, identification and behavior of the dolphins and of water quality in Koombana Bay. As part of the 'Marine Management Program' students monitor the adjoining mangroves. The research student conduct includes developing a sensitivity index for estuarine habitats. They will use this to act and provide recommendations to The City of Bunbury. This popular initiative extends and enriches the science concepts presented in the Science Horizon Program.

Engineering Specialist Program

The content of the Engineering Specialist lessons includes robotic and electronic engineering, chemical, mechanical, Picaxe electronics and programming, solar car models, Human powered vehicles, CAD programming Auricon bridge building, materials and structures. In year 8 students are also required to complete a semester of Design and Technology to gain workshop skills. In year 9 students are encouraged to select one or both of Technical Graphics CAD or Design and Technology.

Application Packages are available at: <http://www.newtonmoreshs.wa.edu.au/index.php/specialist-programs/science-horizons/>
<http://www.newtonmoreshs.wa.edu.au/index.php/specialist-programs/engineering-specialist-program/>

SCHOOL BASED PROGRAMS

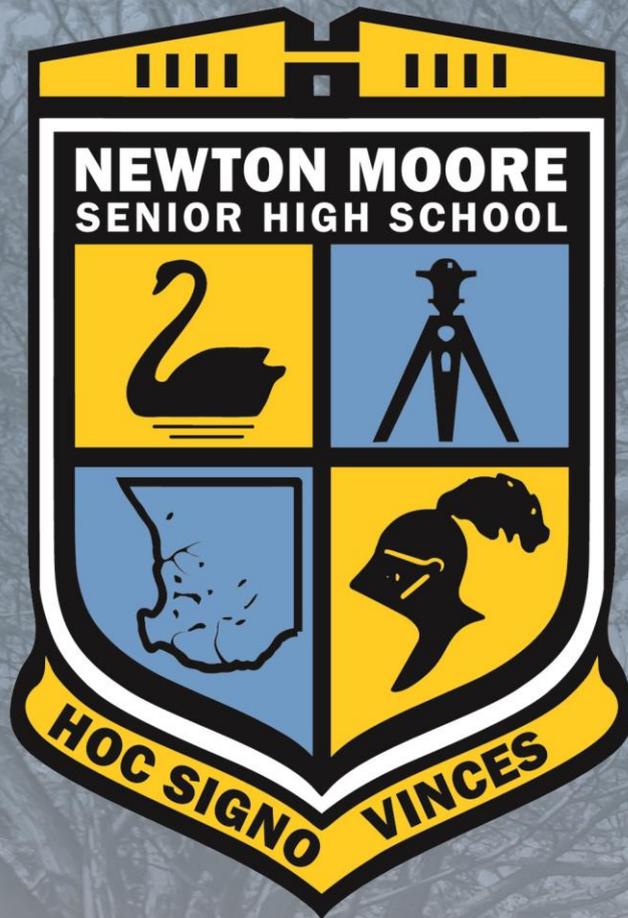
Moore Academy of Sport and Health (MASH)

This program is an enrichment program. Applications are included in the Newton Moore Senior High School enrolment package.

The course develops a career pathway towards Sport and Recreational industries or University studies. High standards in behaviour and attitude towards Physical Activity is essential to be successful in this program. MASH is a school based enrichment program designed for students who have a commitment to physical endeavours. Students are engaged in many different types of sports, however, an emphasis on extending student leadership skill is a key element of the program.

Living and Leading (Clontarf Football Academy, Role Models Girls' Academy)

This course is an integral part of the Academy Programs being offered to Indigenous students in Years 8 to 10. This course develops practical lifestyle skills partnered with building self esteem, developing leadership skills and group cohesiveness. Skills will be enhanced by participating in a variety of activities. Students will maximise and monitor their individual performance through motivation, encouragement, and support via personal and group goal setting.



NEWTON MOORE SENIOR HIGH SCHOOL
Hotchin Street - Bunbury WA 6230 - Ph. 9722-2400 - Fax. 9795-9159
newtonmoore.shs@education.wa.edu.au - www.newtonmoreshs.wa.edu.au

