NEWTON MOORE SENIOR HIGH SCHOOL

Achieving Today for Tomorrow

Year 7 Course Selection Handbook
2018

NEWTON MOORE SENIOR HIGH SCHOOL

YEAR 7 COURSE INFORMATION

All Year 7 students will study the following subjects throughout the year:

Subject	Hours/week
FULL YEAR SUBJECTS	
English	4 hours
Mathematics	4 hours
Science	
Science	4 hours
Approved Specialist Program – Science Horizons	6 hours
Approved Specialist Program – Engineering	6 hours
Humanities and Social Sciences	4 hours
Health and Physical Education	
Physical Education	2 hours
Health	1 hour
Moore Academy of Sport and Health (MASH)	3 hours
SEMESTER SUBJECTS (half year)	
Languages - Indonesian	2 hours
Languages - Japanese	2 hours
Technologies – Digital Technologies	2 hours
Technologies – Food, Wood or Engineering	2 hours
The Arts – Visual Arts or Media Art	2 hours
The Arts – Dance, Drama or Music	2 hours

ENGLISH

The English curriculum is built around the three interrelated strands of language, literature and literacy. Together, the strands focus on developing students' knowledge, understanding and skills in listening, reading, viewing, speaking, writing and creating. Learning in English builds on concepts, skills and processes developed in earlier years, and teachers will revisit and strengthen these as needed.

In Year 7 students communicate with peers, teachers, individuals, groups and community members in a range of face-to-face and online/virtual environments. They experience learning in familiar and unfamiliar contexts that relate to the school curriculum, local community, regional and global contexts. Students engage with a variety of texts for enjoyment. They listen to, read, view, interpret, evaluate and perform a range of spoken, written and multimodal texts in which the primary purpose is aesthetic, as well as texts designed to inform and persuade. These include various types of media texts including newspapers, magazines and digital texts, early adolescent novels, non-fiction, poetry and dramatic performances. Students develop their understanding of how texts, including media texts, are influenced by context, purpose and audience.

HEALTH AND PHYSICAL EDUCATION

The Health and Physical Education curriculum provides opportunities for students to develop, enhance and exhibit attitudes and values that promote a healthy lifestyle.

Health Education
In Year 7, the content expands students' knowledge, understanding and skills to help them achieve successful outcomes in personal, social, movement and online situations. They learn how to take positive action to enhance their health, safety and wellbeing by applying problem-solving and effective communication skills, and through a range of preventive health practices.

Physical Education
Students continue to develop and refine specialised movement skills and focus on developing tactical thinking skills in a range of contexts and applying them to physical activities. They have opportunities to analyse their own and others' performance using feedback to improve body control and coordination. They learn about health-related and skill-related components of fitness and the types of activities that improve individual aspects of fitness. The application of fair play and ethical behaviour continues to be a focus for students as they consider modified rules, scoring systems and equipment, which allows participants to enjoy physical activities and experience success. They begin to link activities and processes to the improvement of health and fitness.

Clothing requirements
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 is recommended). Black tracksuit pants may be worn during cold weather.

MOORE ACADEMY OF SPORT AND HEALTH (MASH)
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 students' leadership skills is a key element of the program.

HUMANITIES AND SOCIAL SCIENCES

In Year 7, Humanities and Social Sciences consists of Civics and Citizenship, Economics and Business, Geography and History.

Students develop increasing independence in critical thinking and skill application, which includes questioning, researching, analysing, evaluating, communicating and reflecting. They apply these skills to investigate events, developments, issues, and phenomena, both historical and contemporary.

LANGUAGES

Languages education is compulsory for all students in Years 3-8. At NMSHS Year 7 students complete one semester of Japanese and one semester of Indonesian. In Year 8 students chose one of these subjects to study for the whole year.

Indonesian: Second Language

In Year 7 students make comparisons between their own language(s) and Indonesian, and reflect on the experience of moving between languages and cultural systems. The practice of reviewing and consolidating prior learning is balanced against the provision of engaging and relevant new experiences and connections.

Japanese: Second Language

In Year 7 students make comparisons between their own language(s) and Japanese, and reflect on the experience of moving between languages and cultural systems. The practice of reviewing and consolidating prior learning is balanced against the provision of engaging and relevant new experiences and connections.

MATHEMATICS

In Mathematics students focus on the proficiency strands understanding, fluency, problem-solving and reasoning whilst engaging in the content strands: number and algebra, measurement and geometry, and statistics and probability. The proficiencies reinforce the significance of working mathematically within the content and describe how the content is explored or developed.

At this year level:

- **understanding** includes describing patterns in uses of indices with whole numbers, recognising equivalences between fractions, decimals, percentages and ratios, plotting points on the Cartesian plane, identifying angles formed by a transversal crossing a pair of lines, and connecting the laws and properties of numbers to algebraic terms and expressions
- **fluency** includes calculating accurately with integers, representing fractions and decimals in various ways, investigating best buys, finding measures of central tendency and calculating areas of shapes and volumes of prisms
- **problem-solving** includes formulating and solving authentic problems using numbers and measurements, working with transformations and identifying symmetry, calculating angles and interpreting sets of data collected through chance experiments
- **reasoning** includes applying the number laws to calculations, applying known geometric facts to draw conclusions about shapes, applying an understanding of ratio and interpreting data displays.

SCIENCE

Students study the strands of Biological Science, Chemical Science, Earth and Space Science, Physical Science with Scientific Inquiry and Human Endeavor embedded within these content strands. Students explore the diversity of life on Earth and continue to develop their understanding of the role of classification in organising information. They use and develop models such as food webs and the water cycle to represent and analyse the flow of energy and matter through ecosystems. They consider the interaction between multiple forces when explaining changes in an object's motion. They explore the notion of renewable and non-renewable resources. They investigate relationships in the Earth-sun-moon system and use models to predict and explain events. Students make accurate measurements and control variables to analyse relationships between system components.

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 STEM Fair, competing in Science 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. 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. Other curriculum includes coding, robotics and CREST investigations.

http://www.teacherstandards.aitsl.edu.au/Illustrations/Preview/f472a777-f6ec-402d-b712-a1e1011c764c

ENGINEERING SPECIALIST PROGRAM

The content of the Engineering Specialist lessons includes robotics, coding, sustainable housing mechanical engineering, Auricon bridge building, materials and structures and CREST investigations.

http://www.teacherstandards.aitsl.edu.au/Illustrations/Preview/fc92031d-d3f8-4fc5-b44f-a1e1011d0c63

TECHNOLOGIES

DESIGN AND TECHNOLOGIES: Food, Wood or Engineering

In Year 7, students have opportunities to learn about technologies in society at least once in the following technologies contexts: Food and Fibre Production; Design and Technologies; or Engineering.

Food and Fibre Production:
Students follow a production system for developing food and textiles products. They learn about the safe use of equipment and materials in the practical environment. They consider the suitability and sustainability of their products on the environment and future generations.

Design and Technologies:

Students are introduced to a workshop environment and follow occupational, health and safety procedures when completing a range of practical tasks. They use a design process to create solutions for different problems and explore the properties of a range of materials.
They develop their hand skills and use specialist equipment to create practical and interesting products.

Engineering:
The use of motion, force and energy to manipulate and control electromechanical and mechanical systems.

DIGITAL TECHNOLOGIES

Students examine the way we communicate with one another in our on-line world. They investigate how data is stored and transmitted over networks and the social responsibilities users have when interacting with one another. Students use different software products to create digital solutions for a range problems that consider user interactions and sustainability.

THE ARTS

PERFORMING ARTS: Dance, Drama or Music

In Year 7, students have opportunities to learn about Performing Arts at least once in the following contexts: Dance, Drama or Music.

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 7 students are introduced to different forms of puppetry and will participate in a range of small group drama activities. During the second half of the course, the students perform small scripted plays with lighting, sound, costumes and set.

Music
This course is designed for students who have minimal experience in Music. Students will learn the basic music elements and have access to a variety of instruments, learning how to apply the elements and read music. Students will also engage in different styles of music and learn how to aurally recognise these styles.

Music Specialist – Instrumental and Ensemble Music (BAND)
Musicians, continue your music with this course. Students who already have experience learning an instrument and studying music will learn how to develop their skills and knowledge of the elements of music. They will engage in a variety of different styles of music and start creating, writing and improvising original 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: Visual Arts or Media Arts

In Year 7, students have opportunities to learn about Visual Arts at least once in the following contexts: Visual Arts or Media Arts.

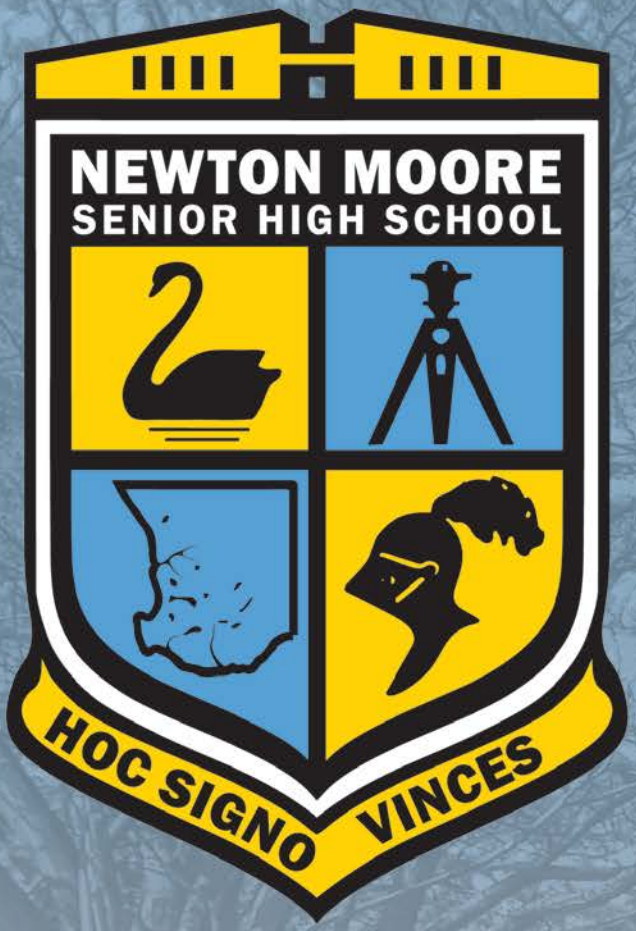
Visual Art
Year 7 students are introduced to the art of Visual Art. Students will gain experience in a variety of art skills and techniques. These could include printmaking, drawing, sculpture, textiles, ceramics and painting.

Media Art
Students explore and use different software packages to create solutions for varied media problems. They work together as a team and use basic production and technical skills to communicate with one another (scripts, storyboards and layouts). They consider the role and influence of the audience when making decisions about their own designs and have the opportunity to demonstrate their creative talents with a variety of digital products (for example: posters, video, image manipulation, animation)

OTHER SCHOOL BASED PROGRAMS

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 7 to 9. 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.newtonmooreshs.wa.edu.au