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INTRODUCTION

This course guide contains details of our whole school curriculum. Section 1 deals with the Junior School, Grades 7 & 8 including grade 8 Elective descriptions and details for selection. In Section 2 there are details of our Senior School program including The Big Picture School and both core and Elective subjects and details of the selection process.

Our subjects are offered as part of the implementation of The National Curriculum and of The Tasmanian Curriculum. The Big Picture curriculum approach enables individuals to personalise their own program. There is a clear focus on motivation and student interest at the Big Picture School. On the main campus there is a mix of compulsory and optional subjects.

Student choice is a great motivator. We believe that it is important that with increased maturity students are able to exercise greater control over their learning, but we also believe that it is very important that our students keep their options open and study a range of subjects across the learning areas.

Our students will enter a workforce that is changing dramatically, and a broad general education that includes specific studies in Science, Mathematics, History, and English is still considered the best preparation for this work future.

This year we expect to use a web based format for the nominations of your preferred options. Details of how to access this site will be provided once we are live and interactive.

Help is available if you are not sure about something. Talk to your Connect teacher, or Grade Coordinator. These are important decisions so take your time and choose wisely.

Mandy Reynolds-Smith
Principal

KEY DATES FOR 2014 SELECTIONS

Tuesday 15 October COURSE INFORMATION EVENING
Wednesday 16 October ONLINE COURSE SELECTIONS OPEN
Thursday 31 October STAGE 1 COURSE SELECTIONS COMPLETED
THE JUNIOR SCHOOL
GRADE 7

Our Grade 7 program is the foundation year of high school. It is an exciting time for students as they embark on their secondary education journey. At Montrose Bay High we provide a structured transition program to give Grade 7 students the best possible start.

PASTORAL CARE

Grade 7 has one grade leader and an AST senior teacher. These two staff are key teachers for the Grade 7 cohort. Each student is allocated to a CONNECT group and their CONNECT teacher is their first point of contact at the start of the day.

We believe that the involvement and support of parents in educating their children is crucial. We encourage parents to maintain regular contact with their child’s CONNECT teacher. Parents are invited to meet home group and Grade 7 teachers early in term 1.

CONNECT teachers are happy to meet or talk with parents if there are any concerns about a student’s welfare or progress.

Each student will be allocated to one of the four houses, Faulkner (Blue), O’Brien (Orange), Dowsing (Green) or Austin (White). The allocation is based on a need to maintain a gender balance, spreading talents across the four houses and a family connection with the house.

CURRICULUM STRUCTURE

In Grade 7 students will experience a wide range of subjects enabling them to make informed choices for Year 8-10. They will cover all eight learning areas: English, Society & History, Maths, Languages, Science, Vocational and Applied Learning, Health and Wellbeing and The Arts.

Throughout Grade 7 we will be focussing on building fundamental literacy & numeracy skills, social skills, organisational skills and thinking processes for deeper learning.

LEARNING SUPPORT

Support is provided for identified students to work on a one on one basis with an aide or in small groups with a teacher focussing on the skill area that requires development. This could include literacy, numeracy, social skills or life skills.

English

The study of English is central to the learning and development of young Australians. It helps create confident communicators, imaginative thinkers and informed citizens. Throughout the grades, students will study, reflect upon and respond to a wide range of texts while developing their vocabulary, structure and style of writing with the aim of becoming competent and sophisticated writers.

At the start of Grade 7, students explore their own ambitions and dreams while setting themselves targets for the future. This unit develops their self-expression whilst building upon their creative and persuasive
writing skills. Following this students study a novel and explore characters and action while analysing the style of language used by the author to create effects. The third unit is a Creative Writing programme which specifically targets students’ use of sentence structures, vocabulary and punctuation. The final unit is a programme is a combination of a programme which introduces students to Shakespeare and then a film study which will develop students’ analysis and appreciation of different media. Throughout the year students will use a range of ICT skills to enhance their writing for different purposes and audiences.

**Mathematics**

Students in Grade 7 study Mathematics for 5 periods per week, for the whole year. Students are initially assessed using Progressive Achievement Tests in Mathematics (PAT Maths) to ascertain incoming ability level. This information is used to inform and guide the teaching and learning program. Students are then re-tested in November.

Support is offered through the *Hot Maths* program which focuses on improving Numeracy skills. Maths Online, [www.mathsonline.com.au](http://www.mathsonline.com.au), is available for extension and homework.

Students use the four main number operations to develop number sense in topics such as financial studies, Pattern and Algebra and an introduction to index notation. They use interpretation and analysis (finding the mean, mode and median) to determine trends in data in the form of linear graphs, charts and tables. Students also use formulas to find the area and perimeter of rectangles and calculate volume of rectangular prisms. This is all underpinned by a strong emphasis on deepening their knowledge of fractions, decimals and percentages.

**Science**

Students in Grade 7 study Science for 4 periods per week, for the whole year.

During the year students will be introduced to science laboratory equipment and safety procedures. They will also have the opportunity to study the chemistry of mixtures and solutions, how scientists organise living organisms in ecosystems, the physics of forces and how the movements of the Earth create seasons.

**History and Geography**

All students in Grade 7 study History/Geography for 4 periods a week. This course introduces students to the ancient world and how it has influenced the world we live in today. The study of the ancient world includes the discoveries (the remains of the past and what we know) and the mysteries (what we do not know) about this period of history. Students will also learn about *Water in the world* and *Place and liveability*.

*Water in the world* focuses on water as an example of a renewable environmental resource. *Place and liveability* focuses on the concept of place through an investigation of liveability.

Students in Grade 7 will study historical and geographical concepts through studying the following inquiry questions:

1. How do we know about the ancient past?
2. Why and where did the earliest societies develop?
3. What emerged as the defining characteristics of ancient societies?
4. What have been the legacies of ancient societies?
5. How do people’s reliance on places and environments influence their perception of them?
6. What effect does the uneven distribution of resources and services have on the lives of people?
7. What approaches can be used to improve the availability of resources and access to services?
Health and Wellbeing

Our Health and Wellbeing program focuses on the five components of Health; Mental, Social, Emotional, Spiritual and Physical. Each of the five elements is a fundamental building block for a healthy lifestyle. Being healthy is a learned behaviour and like any learning it needs a scaffold. The five dimensions of health underpin learning throughout our school and they give students a language and process that enables them to be positive and learn effectively when making successful health choices.

Our program is scaffolded from Grade 7 through to Grade 10 and integrates knowledge and practical aspects.

In our program students are encouraged to:

- Demonstrate physical health by giving 100% in the program and demonstrate a positive attitude to their health and wellbeing and the health and wellbeing of others.
- Value and enjoy the benefits gained from regular participation in a wide range of activities.
- Demonstrate emotional health by being themselves, accepting difference and stepping outside their comfort zone.
- Demonstrate social health by interacting positively with a wide range of peers.
- Demonstrate mental health by listening, asking and answering questions, understand how the brain works and work their way up the thinking thermometer.
- Demonstrate spiritual health by believing in themselves, respecting themselves and making connections.

In Grade 7, students participate in the following learning experiences:

- Am I Healthy?
- Smart Choices
- Aquatics
- Fun Run
- Celebrating Success
- Who Dares Wins
- Athletics

Within these units, students are exposed to various forms of sport and recreational activities.
LANGUAGES

Grade 7 students at Montrose Bay High study both Japanese and Chinese at an introductory level. Each of these languages is studied for a half year block and students have the option of continuing their language study into Grade 8.

JAPANESE

Students are introduced to the Japanese language through learning basic greetings, a self introduction and numbers. There is an emphasis on verbal communication which is reinforced through the study of Hiragana and Katakana, two of the Japanese writing systems. Students are also introduced to some basic Kanji (writing that originated in China).

Much of the course is delivered within a cultural perspective which gives a relevant context for the language points studied. Cultural awareness is also fostered through the use of texts, videos, the Internet and opportunities to cook and taste Japanese food. Where possible, learning opportunities are also cultivated with native speakers.

CHINESE

Students are introduced to the Chinese language through learning basic greetings, a self introduction, classroom objects and numbers. There is a focus on verbal communication and students are taught the use of tones in the Chinese language. Students are also taught how to read and write basic Chinese characters and the Pinyin system.

Much of the course is delivered within a cultural perspective which gives a relevant context for the language points studied. Cultural awareness is also fostered through the use of texts, the Internet and videos. Where possible, learning opportunities are also cultivated with native speakers.

THE ARTS

In Grade 7, students are given the opportunity to study Drama, Music and Visual Arts. This is a critical time to learn basic skills and concepts.

For many, these creative experiences will be both new and exciting and for others, it is an opportunity to expand their previous knowledge base. Students will then be able to make informed judgements as to their elective subjects in Grade 8, 9 and 10.

DRAMA

Grade 7 Drama is essentially a skill building course focussing heavily on increasing self confidence, working cooperatively in group situations and developing an understanding of basic dramatic techniques.

Students learn through co-operative games, improvisation and movement the ways how to communicate both verbally and non verbally. The drama framework provides a structure for students to create their own work. They are encouraged to reflect on both their own work as well as the shared work of others. Through participation, students are expected to make a commitment to specific tasks and commit to a whole group presentation.

MUSIC

Grade 7 foundation Music offers students the opportunity to learn how to read notation, develop aural skills, create compositions, understand Music theory and Music history. Students will start the year learning to read and play Music on a woodwind or brass instrument with a focus on producing good sound and technique. Each class will learn elements of musicianship while performing as a large ensemble. All students have the opportunity to be extended beyond classroom music as a member of the Montrose Bay High Junior Concert Band.
VISUAL ARTS
The Grade 7 semester course is a taster course to learn how to develop technical and expressive skills in the areas of drawing, painting and sculpture. Students are given an opportunity to try a variety of two-dimensional and three-dimensional media, for example, pencils, paint, papier-mâché, clay, pastels, dyes, pen and ink.

Students will study the Art Elements- line, colour, shape, form, texture, space and pattern. This course will contain both practical and theory, with students creating a folio of work, utilising a sketchbook and theory book.

VOCATIONAL AND APPLIED LEARNING
The Year 7 Technology course has the following main aims:

- To introduce and stimulate an interest in the many areas of Technology.
- To enhance the Technological skills of designing, making and appraising.
- To encourage the translation of skills learned in one area of the curriculum to another.

HOME ECONOMICS
Home Economics is studied in a half year block, with ten weeks spent in both Foods and Textiles. In Foods, students gain basic skills in food preparation, nutrition and occupational health and safety. In Textiles students explore the origin of fibres, the structure and care of fabrics and they develop basic hand sewing techniques. In both disciplines students undertake set projects and conclude with a design brief to demonstrate the skills and knowledge they have acquired.

MATERIALS DESIGN AND TECHNOLOGY
Materials Design and Technology is a part of the Vocational and Applied Learning Syllabus, giving students challenges in problem solving, design and innovation. It teaches them skills and techniques for working with resistant materials. The learning opportunities will be framed within a project-based context, where each project builds on the skills learnt and techniques developed. The theory component includes the safety requirements involved with working in the workshop and also looks at timber as the main natural resource that is used in our workshop.

ASSESSMENT AND REPORTING
Assessment tasks are carried out throughout the year and reports are issued three times a year, as a progress, mid year, and end of the year report.

The first report is a quick snapshot of how your child is settling into high school. The second report at mid year is a detailed assessment of your child’s subject results so far and the third report is a record of assessment ratings achieved and key concepts covered.

There are advertised opportunities for parents to meet with home group and subject teachers during the year, however parents are encouraged to contact teachers should the need arise.

COMPUTERS
Montrose Bay High has a school wide WiFi network and information technology will be incorporated into most learning areas. Every Grade 7 student will have a personal laptop computer. Guidelines for the proper use of computers will be a component of the students program and all students will take part in an orientation program designed to help them understand and learn how to use and care for their computer. This will include a session with parents prior to students being allowed to take their computers home. Students are required to sign a Computer Use Agreement in order to have access to the schools information technology resources.
GRADE 8

In 2014, students in Grade 8 will have the opportunity to make some choices about the subjects they will study.

All students will continue to study the core subjects of English, Mathematics, Health and Wellbeing, Science, History and Geography.

Students will have the opportunity to choose elective subjects from the areas of Arts, Languages and Technology. Each course will run for 20 weeks, with the exception of Music and Art if chosen as a full year elective.

**English**

In Grade 8 students work on building their analytical skills further by reading a popular Australian novel and exploring the themes, characters and action at a deeper level. The second unit is a poetry based study where students look at poetic techniques and structure from a range of poems from different cultures and historical eras. In the third term, students focus on the gothic genre and read a range of extracts or short stories being able to identify vocabulary, sentence structures and paragraphs typical of this genre and then adopt these to create their own gothic short story, using a range of ICT skills to develop meaning and effect of their work. The final unit is a media based unit which allows students to look at the purpose and effects of advertising while refocusing on persuasive writing techniques.

**History**

All students in Grade 8 study History for 4 periods a week. This course provides a study of history from the end of the ancient period to the beginning of the modern world. This was when major civilisations around the world come into contact with each other. It was the period when the modern world began to take shape.

Students will engage with the concepts of evidence, change and continuity, cause and effect, perspectives, empathy, significance and contestability through studying the following inquiry topics:

1. How did societies change from the end of the ancient period to the beginning of the modern age?
2. What key beliefs and values emerged and how did they influence societies?
3. What were the causes and effects of contact between societies in this period?
4. Which significant people, groups and ideas from this period have influenced the world today?

**Geography**

All students in Grade 8 study Geography as a semester course for 4 periods a week. This course enables students to learn that there are different ways of thinking about and interacting with the environment. Unit one, Landforms and landscapes, develops students’ understanding of the concept of environment and enables them to explore the significance of landscapes to people, including Aboriginal and Torres Strait Islander Peoples. Unit two, Changing nations, investigates the changing human geography of countries, as revealed by shifts in population distribution. Students will study the concepts of place, space, environment, interconnection, sustainability, scale and change through the following inquiry questions:

1. How do environmental and human processes affect the characteristics of places and environments?
2. How do the interconnections between places, people and environments affect the lives of people?
3. What are the consequences of changes to places and environments and how can these changes be managed?
4.

Mathematics
Students in year 8 continue a strong theme of number sense, but move away from Pattern and Algebra and into manipulating algebraic expressions and equations to find answers. This knowledge of algebra is applied in topics, such as Measurement, where students determine perimeter and area of circles, parallelograms, rhombuses and kites and solve problems relating to the volume of prisms. The focus on Algebra is continued when plotting and reading linear graphs. Students explain issues related to the collection of data and the effect of outliers on means and medians in that data. Financial concepts are also covered in this year through solving problems involving profit and loss (percentages and ratios).

Science
During the year students will have the opportunity to study the biology of cells, be introduced to the particle theory in chemistry, the formation of rock types on Earth and the physics of energy in our everyday lives. Students will also have the opportunity to undertake an extended investigation.

Health and Wellbeing

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Electives
Students will study three electives for half a year each from those listed below. Students may only select 1 yearlong subject (either Art or Music). If selecting Music – Beginner Rock or Band Studies it will count as 2 choices.

Choices should be numbered from 1 – 6 in order of preference. Choices 4, 5 and 6 will be reserve choices and only apply if one of your first three choices is not available.

ART 1
Did you enjoy Art in Grade 7? Why not take it to the next level? Develop your design and observation skills, and express your imagination and originality with more complex art techniques! You will explore a variety of 2-D and 3-D media including drawing, painting, printmaking, papier-mache, cross-media, ceramics and digital media, and have the opportunity to learn more advanced technical skills.

ART 2
This is a continuation of the Art1 course.
DRAMA
This course continues on from Grade 7 and develops varied communication skills through exploration of language, drama, expressive movement and related arts.

MUSIC - BEGINNER ROCK STUDIES
Students will learn how to develop their instrumental skills and are taught how to gain confidence as a performer. Students will learn to play different styles such as rock, blues, heavy metal, funk, jazz, pop etc. They will develop listening skills, knowledge of music history and an understanding of music theory. Students will also become competent in using sound equipment and recording technology.

MUSIC - BAND PROGRAM
This class draws on students from all grades to form various groups such as Stage Band, Senior Concert Band, Junior Concert Band, Jazz Band and Guitar Ensemble. Students receive small group tutoring and regular band rehearsals as well as the opportunity to apply for scholarships to pay for private lessons. Each year ends with a weeklong Music tour of primary schools usually in the north of the state. Students will develop performance skills, instrumental skills, listening skills, the ability to sight-read and a deep understanding of music theory.

PHOTOGRAPHY
Want to create the best Facebook images ever? This course is an introduction to some of the skills and techniques that photographers use to create more original and amazing photographs. You will develop digital and traditional photographic skills and explore the creative aspects of photography.

ADVANCED ENGLISH
Are you passionate about writing, reading and expressing your opinions? Are you good at or do you enjoy English? Are you considering studying English at college or do you want to be a writer, journalist or poet? Advanced English could be the class for you! In this class you will be expected to write creatively, read analytically and share your thoughts and opinions with others. The course will combine speaking and listening activities as well as the production of multimodal (digital) and written texts. Get creative, start writing and choose Advanced English!

CHINESE
This course builds on the skills and knowledge learned in the Grade 7 course. The new Language Centre provides an ideal learning environment where students have the opportunity to extend their language skills and gain a future appreciation of the Chinese culture. Students are encouraged to consider this course as a valuable preparation for any future Chinese study.

JAPANESE
This course builds on the skills and knowledge learned in the Grade 7 course. The new Language Centre provides an ideal learning environment where students have the opportunity to extend their encouraged to consider this course as valuable preparation for any future Japanese study.

INFORMATION TECHNOLOGY
The Information Technology course will provide students with experience in many types of application programs, chosen from a range including publishing, website design, animation and drawing packages. Students will also gain an appreciation of the importance of computer networks in today’s society, as well as considering the impact of information handling techniques in past and future societies.

GAMING
This course is focused on game playing and game making. Students will learn what makes a good game. Game programming, game reviewing and game art and design will feature as a part of this option.
MOVIE MAKING
Ever wonder how the world of Film, Television and Radio works? Well Movie Making is the perfect course for you. Learn about the Media Industry through studying the professionals and creating your own Talk Show, News Broadcast, TV and Radio Shows to take home. You will also have the opportunity to enter film competitions and broadcast your work to the rest of Montrose Bay High.

DESIGN FOR THE FUTURE
This course combines science, technology, engineering and mathematics, using Lego Robotics as a tool for design. After a series of fun Lego Robotics challenges (such as Robot Sumo) which refine construction and programming skills, students continue by innovating robot designs of their own. Students learn about physics and machines, develop skills in sketching and communicating ideas, and improve their problem-solving and design abilities.

EXTENDED MATHEMATICS
Interested in a career in science, engineering, technology, surveying, education, or health? Prepare for Uni requirements by gaining advanced mathematics placement in high school. This track involves an advanced maths elective in Year 9 in preparation for a pre-tertiary (“pre-university”) level mathematics elective in Year 10 (in addition to the normal Australian Curriculum mathematics courses in Year 9 and 10). Acceptance into some university degrees requires a minimum ATAR (Australian Tertiary Admission Ranking) score which you earn in college by taking pre-tertiary courses. By enrolling in advanced mathematics in high school, you will be eligible for jumping right into ATAR ranked mathematics courses in your first year of college.

This semester elective is designed for students with an ambition to extend their mathematics in high school. The concepts covered will be mainly the extension components of the Grade 8 mathematics with a focus on problem solving, reasoning and enrichment.

MATERIALS, DESIGN AND TECHNOLOGY (MDT)
This course concentrates on the design process and offers students the opportunity to work mainly with wood and metal. There will be a focus on basic construction and finishing techniques and an emphasis on workshop safety.

FOODS
The aim of this course is to equip students with the knowledge and skills to make informed food choices. It focuses on food related issues including nutrition, skill development, recipe development as well as analysis and evaluation of work and products produces. Group work will be encouraged.

TEXTILES
Students will have the opportunity to refine their hand sewing skills and to develop machine sewing skills during this course as well as encouraging creativity in their work. Students will initially complete a design brief and then have the opportunity to choose projects that reflect their own interests.

GREEN TEAM
This is a practical subject where students will look at a range of issues relating to sustainability in the school and home environment. This will include energy and water usage, waste management and self-sufficiency. Students will experience plant propagation from seeds and cuttings; site preparation and planting; soil testing, manures and composting; maintenance and harvesting. These activities will be based around our hothouse, vegetable garden, orchard and native plantings at the foreshore and creek. Students will learn through enquiry, demonstration and practical application.
Students enrolling in The Big Picture School are automatically enrolled in a full program of basic subjects English, History, Science, Maths and Health and Wellbeing.

This innovative program is designed to give students much greater control over their learning. It is an active learning program with a major emphasis on 'context', 'authenticity' and learner responsibility.

'Contextual learning' is, as the name indicates, learning that takes place in a real context. The context may be a workplace, a museum, a community organization - anywhere that is relevant to the learning that needs to take place. The focus here is a learning program where the problems and projects are not just completed for the sake of the learning, but are real, with real expectations, real timelines and real deadlines. The learning is 'authentic' because it is not contrived: the work results in a genuine product or outcome. This focus will make the work more relevant and meaningful. We believe this will increase student motivation and interest.

With this program each student will be allocated an Advisory Teacher who will be responsible for looking after a group of about eighteen students.

Each student in the program will have an Individual Learning Plan that is set around a sequence of learning outcomes drawn from the Tasmanian Curriculum. Each student will negotiate their program with their Advisory Teacher. Parents will be involved in this process.

A major feature of the program is time spent in a workplace or enterprise (up to two days per week) with the balance of the week given over to course work and planning.

The main difference between the Big Picture program and our main campus way of working is that students’ focus is very much centred on a personal approach. With this personal approach students can accelerate their learning when they want to and/or slow down when they need to. “It’s one student at a time.” Students need to be highly motivated and committed to their own learning to maximise the success of this program.

Regular reviews and feedback to parents are a major feature of this program with students exhibiting their work/learning once a term to their Advisory Teacher, parent or guardian and an independent community member.
SENIOR SCHOOL COURSES

The Grade 9/10 program will be based on the Australian Curriculum for English, History, Mathematics, Science, and the Tasmanian Curriculum for Health and Wellbeing, The Arts, ICT, Vocational and Applied Learning and Languages. **English, History Mathematics, Science, and Health and Wellbeing are compulsory for all students.** The remaining time is allocated to TWO lines of elective subjects chosen from an extensive range of options.

1. ENGLISH

During **Grade 9**, students refine their reading and writing skills further by studying a range of text types, looking at the purpose and audience and how the text is structured to suit these purposes. Students will practise writing in a range of styles and are able to perfect their vocabulary and sentence structures for effect. Following this, students complete two reading-based units: one which is based on a free verse novel where students look at the style, themes, and events and then a unit based on the play Romeo and Juliet which allows students to recognise the importance of Shakespeare while understanding how the play was relevant in the era it was written and in modern times. The final unit is a film study based on a popular modern film where students compare the book version to the film version.

In **Grade 10**, students revise their reading and writing skills throughout each unit in preparation for their life after school. The first unit involves a novel study where students write for different purposes and experiment with perspective. Students are given opportunities to write critically and creatively throughout this topic. The second topic revisits the work of Shakespeare and focuses on how the themes have been adapted into modern day stories. The third unit investigates advertising and the techniques used to persuade which allows students to look at the effects of language and visuals on an audience. The final units of Grade 10 explore narrative through picture books and film which allows for final consolidation of students’ creative and analytical skills from across the grades.

2. HISTORY

All students in **Grade 9** study History for 4 periods a week. This course provides a study of the making of the modern world. This was a period of industrialisation and rapid change in the ways people lived, worked and thought. This period culminated in World War One.

Students will engage with the concepts of evidence, change and continuity, cause and effect, perspectives, empathy, significance and contestability through studying the following inquiry topics:

1. What were the changing features of the movements of people from 1750 to 1918?
2. How did new ideas and technological developments contribute to change in this period?
3. What were the origin, development, significance and long-term impact of imperialism in this period?
4. What was the significance of World War One?

All students in **Grade 10** study History for 4 periods a week. This course provides a study of the modern world and Australia from 1918 to the present, with an emphasis on Australia in its global context. Students will examine the transformation of the modern world during a time of political turmoil and global conflict.

Students will engage with the concepts of evidence, change and continuity, cause and effect, perspectives, empathy, significance and contestability through studying the following inquiry topics:

1. How did the nature of global conflict change during the twentieth century?
2. What were the consequences of World War Two? How did these consequences shape the modern world?
3. How was Australian society affected by other significant global events and changes in this period?
3. SCIENCE

Grade 9
During the year students will have the opportunity to study the systems of the human body, the structure of atoms and other patterns in chemistry, how the Earth’s structure influences landforms and natural disasters and the physics of energy transfers and transformations.

Grade 10
During the year students will have the opportunity to study DNA, inheritance and evolution, the chemistry of the Periodic Table and chemical reactions, the physics behind Newton's Laws of Motion and the origins of the universe. Students will also conduct an extended investigation of their choice.

4. MATHEMATICS

Year 9:
Students in year 9 build on their algebraic understanding in topics on linear relations and simultaneous equations and algebraic techniques. They explore measurement of triangles using trigonometry and Pythagoras Theorem. This deeper understanding of measurement is continued in topics involving finding the volume of prisms as well as the surface area of 3D shapes. Topics involving index notation and finance are areas where students are able to increase their numeracy skills. Finally, students are introduced to Quadratic Equations as a way of further extending their knowledge in Algebra.

Year 10:
In year 10, algebra is a continuing theme. It is a powerful problem solving tool and so underpins many of the topics covered. Students solve problems involving linear equations, including those derived from formulas and lines. They also explore concepts involving non-linear equations, such as quadratics, circles and exponentials. Students will use apply reasoning, including the use of congruence and similarity, to proofs and numerical exercises involving plane shapes through geometric reasoning. Topics involving measurement also include studies in Trigonometry and Pythagoras Theorem, in particular understanding the link between Pythagoras and trigonometric function. Finally, students apply mathematical reasoning and problem solving to claims that are made about sport in conjunction with concepts involving chance and data. They analyse scenarios in sports such as orienteering, archery, basketball, netball and darts.

5. Health and Wellbeing

9/10 Health and Wellbeing
The 2014 course builds on the strong foundations set in the Grade 7 & 8 program. It is based around providing students with strategies and skills to develop the five components of health (Spiritual, Mental, Social, Physical and Emotional) through participating in integrated practical and theoretical lessons.

Students will also take part in excursions and experiences centred around the four units covered – Learning for Life, Taking Control, Practising Success and Coping. Additional workshops and courses will also be offered with an outdoor education, activities and fitness focus. Students will also get the opportunity to represent the school in the school’s football team.
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**PREFERENCE PLANNER** - start your planning for 2014 here.

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ELECTIVE SUBJECTS

THE ARTS

VISUAL ARTS

Students have a choice of selecting either a semester or full year course by choosing either one or two semester course options. The semester courses provide opportunities for students to explore areas which interest them.

ART EXTENSION  
(Yearlong)

If you have original creative ideas, and like working on your own projects, then this is the course for you! You will use advanced materials and techniques to develop original and self-directed art works. You will experiment with a range of 2D and 3D media, and you will also be encouraged to analyse, appreciate and respond to other people’s art. This course encourages you to work more independently on ideas and themes that interest you, and will challenge you to produce a major artwork based on your own original theme. In this course, you will develop portfolios which show ideas, sketches, plans and completed artworks, much like a professional artist. If you want to continue with Art in college, you are encouraged to study this course.

CLAY  
(Semester 1 or 2)

Do you enjoy using your hands to shape, mould and manipulate materials to create 3D objects? This course will teach you how to make cool objects with clay. You will be able create both functional and decorative objects using earthenware and slip clay. A variety of different techniques such as hand building, casting, moulds and wheelwork may be used. Create imaginative and practical items such as bowls, platters, containers, plates, pot plant containers, torsos, birds, figures, animals, heads, jewellery and outdoor sculptures.

PRINTMAKING  
(Semester 1 or 2)

Put your artwork into print! This hands on course provides you with the opportunity to produce prints on fabric, posters, small books and much more. Explore a range of printmaking techniques such as linocut prints, drypoint etchings, monoprints, collagraphs and screenprints. Score metal plates with etching needles or biting in an acid bath; carve lino and collagraph boards, screenprint your photographs! You will become confident with equipment such as the etching press, rollers, barens and screens. You will develop your own themes; create multiples to use as cards and gifts, and have fun experimenting with textures, layers, colours and effects.

GRAFFITI AND T-SHIRT DESIGN  
(Semester 1 or 2)

Are you interested in street art and graphic design? In this course you will explore modern artistic expressions through tattoo design, skateboards, graffiti designs for trains, screen printed T-shirts and cushions. You will develop skills in screenprinting, stencilling, airbrushing, fabric painting and detailed drawing and painting techniques. Discover your own graffiti style, learn how to make letter structures and characters in your sketchbook, and explore the world of graffiti artists and graphic artists by understanding terminology and the meaning behind different styles and types of street art.

DRAWING AND PAINTING  
(Semester 1 or 2)

Do you want to improve your drawing and painting skills? Do you want to be able to use tone successfully to express your ideas and create images that look lifelike, atmospheric, expressive or surreal? In Drawing and Painting you will have the opportunity to experiment and develop skills with pencils, biro, charcoal, chalk, crayons, pastels, pen, paint, ink and digital software. You will develop your own themes and find what
media works best for you to confidently express your imagination and ideas. You will learn how to arrange the elements in your artworks to create striking, original and dynamic drawings and paintings. The semester will conclude with you creating your own original art work, to demonstrate the skills you have learnt over the semester.

**MASK, MIRRORS AND SCULPTURE** *(Semester 1 or 2)*
Would you like to turn your art into wearable and decorative items? If you enjoy being creative and using your hands then, this course is for you. You will have the opportunity to work with a range of cross-media (2D and 3D) such as clay, papier-mâché, mixed-media, fabric, cardboard, and found objects, using modelling, collage and painting. Create a fantastic carnival mask using a range of 3-D media; or make a decorative mirror or a wall decoration using themes such as animals, birds and flowers.

**PHOTOGRAPHY**

**PHOTOGRAPHY – DIGITAL & DARKROOM** *(Year Long)*
Stop taking boring photos!
Photography challenges you to look beyond the subject of a photograph and to experiment with, creative and imaginative ways of photographing people, places and objects. You will learn advanced digital and traditional photographic techniques as well as using digital editing programs to enhance your images. This course provides a good grounding for further study of photography at college or a career as a commercial photographer.

**PHOTOGRAPHY – BEYOND SNAPSHOTS** *(Semester 1 or 2)*
Push your selfies to new heights!
This course will develop your technical and creative skills and allow you to create amazing original images. You will develop advanced digital and traditional photographic skills and explore the creative aspects of photography.

**PERFORMING ARTS**

**MUSICAL PRODUCTION:**
If you would like sing, dance and act as part of a large ensemble then this course is the one for you. Musical Production offers students the opportunity to participate in the 2014 Musical which will be staged in the PAC for a variety of audiences towards the end of term 2. Students will focus on vocal, choreographic and stagecraft skills and work cooperatively as part of an ensemble.
To be on stage in the Musical next year you must select this course.

**SENIOR DRAMA** *(Semester 2)*
This course extends the core skills acquired in Grades 7 & 8 Drama.
There will be varied opportunities to participate in small group and whole class process drama as well as presenting polished performances for audiences, including ‘Dragonfly’ in term 4.

**DANCE** *(Semester 1 or 2)*
Students will explore and experiment with dance and its potential for communication. They will develop their dance skills and vocabulary through a process of dance composition and performance in cooperative groups or individually. Throughout this course the students will keep a journal to show reflection of their own work and the work of others.
MUSIC

GRADE 9 ROCK STUDIES  
(Year Long)
Would you like to play electric guitar, bass, drums, keyboards or sing in an awesome rock band?
In Rock studies students learn how to develop their instrumental skills and are taught how to gain confidence as a performer. Students will learn to play different styles such as rock, blues, heavy metal, funk, jazz, pop etc. They will develop listening skills, knowledge of music history and an understanding of music theory that will enable them to write their own songs. Students will also become competent in using sound equipment and recording technology.

GRADE 10 ADVANCED ROCK STUDIES  
(Year Long)
Would you like to play electric guitar, bass, drums, keyboards or sing in an awesome rock band?
This course is designed to prepare students for college level music. In Advanced Rock studies students learn how to develop their instrumental skills and are taught how to gain confidence as a performer. Students will learn to play different styles such as rock, blues, heavy metal, funk, jazz, pop etc. They will develop listening skills, knowledge of music history and an understanding of music theory that will enable them to write their own songs. Students will also become competent in using sound equipment and recording technology.

BAND PROGRAM  
(Year Long)
Do you play the trumpet, flute, saxophone, euphonium, trombone, clarinet, bass guitar, electric guitar or drums and would like to represent the school?
In the band program students play a wide selection of enjoyable music. This class draws on students from all grades to form various groups such as Stage Band, Senior Concert Band, Junior Concert Band, Jazz Band and Guitar Ensemble. Students receive small group tutoring and regular band rehearsals as well as the opportunity to apply for scholarships to pay for private lessons. Each year ends with a week-long Music tour of primary schools usually in the north of the state. Students will develop performance skills, instrumental skills, listening skills, the ability to sight-read and a deep understanding of music theory.

AUDIO DESIGN  
(Year Long)
Would you like to operate all the equipment in the performing arts centre, learn how to record bands and run assemblies and school events?
This course teaches students how to set up and use microphones, mixing desks, lighting desks, amplifiers and recording equipment. Students will learn how to problem solve and work independently while providing sound reinforcement for a wide variety of purposes and events. They will also develop a basic understanding of the science of sound and sound reproduction.

ADVANCED MATHEMATICS
Interested in a career in science, engineering, technology, surveying, education, or health? Prepare for Uni requirements by gaining advanced mathematics placement in high school. This track involves an advanced maths elective in Year 9 in preparation for a pre-tertiary ("pre-university") level mathematics elective in Year 10 (in addition to the normal Australian Curriculum mathematics courses in Year 9 and 10). Acceptance into some university degrees requires a minimum ATAR (Australian Tertiary Admission Ranking) score which you earn in college by taking pre-tertiary courses. By enrolling in advanced mathematics in high school, you will be eligible for jumping right into ATAR ranked mathematics courses in your first year of college.

YEAR 9 EXTENDED MATHEMATICS  
(Semester 2)
This semester elective prepares students for Montrose Bay’s college-level Year 10 mathematics elective. This course will extend components of the Grade 9 Australian Curriculum with a rigorous focus on algebra as a requirement for the Year 10 TQA level course.

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YEAR 10 EXTENDED MATHEMATICS

This full-year elective is the college level TQA (Tasmanian Qualifications Authority) mathematics course. In 2014, we will offer General Mathematics Foundation (level 2), which prepares students for taking the pre-tertiary (level 3) course in Year 11. Course content includes linear equations, financial mathematics, shape and measurement, data analysis, and matrices.

HEALTH AND WELLBEING

FITNESS & WELLBEING (Semester 1 or 2)
Like to WORK OUT? This subject is about improving your individual fitness, whatever level it may be. Complete class fitness challenges, develop your own fitness plan, and participate in fun activities in our specialized mini-gym. While you work out you will also learn the basics around essential nutrition for lifelong health, developing cardiovascular fitness, and discover myths and truths about issues like “diet fads” and “5 minute abs”.

- Half year option
- Off campus activities/excursions
- Be active!

Select this option if you are willing to sweat and work hard to improve your physical fitness in our mini-gym.

SPORT & WELLBEING (Semester 1 or 2)
Like getting active? Willing to try new sports? In sport and Wellbeing, that is what’s expected of you! Learn the basic rules and skills to a range of sports. Burn off some energy in this highly active subject. You will also learn the basics around essential sports psychology, skill/fitness development, and discover issues and strategies around working in teams.

- Half year option
- Specialist workshops
- Learn to play after school sports

Select these options if you are willing to get active and participate in a range of sports.

OUTDOOR EDUCATION

Year Long
Outdoor Education is an opportunity to interact with the natural world. This course will focus on outdoor activities including bush walking, orienteering, first aid, mountain biking, kayaking and rock climbing. It will provide students with the opportunity to build life skills, physical skills and aim to develop a positive relationship with nature.

- Bushwalking
- Mountain Biking
- First Aid
- Rock Climbing
- Camp cooking
- Orienteering/navigation
- Kayaking
- Multisports
INFORMATION & COMMUNICATION TECHNOLOGIES

INFORMATION TECHNOLOGY (Year Long)
The Information Technology course will provide students with experience in many types of application programs, chosen from a range including publishing, website design, animation and drawing packages. They will also learn to manage a computer by studying hardware configurations, software selection, operating system functions, networking, and safe computing practices. Students will also investigate the social impact of computer technologies, and develop an understanding of environmental and ethical issues related to the use of computers.

COMPUTER GAMING (Semester 1 or 2)
This course is looks at game playing and game making. Students will learn what makes a good game. A heavy focus on Game programming, game reviewing and game art and design will feature as a part of this option. We will also look closely at online gaming environments such as Minecraft.

MOVIE MAKING PRO (Semester 1 or 2)
Interested in a career in Film, Television or Radio? OR Just enjoy making movies for fun? Then MM PRO is for you! You will be able to create your own productions, from music videos to reality shows, to reporting the news or solving crime. In MM PRO you will continue to improve your filming, editing and producing skills as well as learn about the Media Industry and career pathways in this field.

ADVANCED DESIGN FOR THE FUTURE (formerly Robotics) (Semester 1 or 2)
Students extend their problem-solving and design skills using Lego Robotics. After a series of introductory challenges building on the Grade 8 program, students will construct and program robots to accomplish specific tasks, such as a robotic hand. The course includes components of the STEM (science, technology, engineering and mathematics) curriculum to improve individual skills in the development of technology.

LANGUAGES

JAPANESE LANGUAGE AND CULTURE (Year Long or Semester 1 or 2)
This course continues to build on the knowledge and skills students have gained in Grades 7 and 8. Provision will be made for those students who may not have studied Japanese since Grade 7 and wish to begin afresh. The core language skills of listening, speaking, reading and writing will be taught through continuing reference to Japanese lifestyle and culture. Comparisons will be made between Japanese and Australian lifestyles. Students will develop an appreciation of cultural diversity and individual identity through their studies.

CHINESE LANGUAGE AND CULTURE (Year Long or Semester 1 or 2)
This course continues to build on the knowledge and skills students have gained in Grades 7 and 8. Provision will be made for those students who may not have studied Chinese since Grade 7 and wish to begin afresh. The core language skills of listening, speaking, reading and writing will be taught through continuing reference to Chinese lifestyle and culture. Comparisons will be made between Chinese and Australian lifestyles. Students will develop an appreciation of cultural diversity and individual identity through their studies.

ADVANCED ENGLISH (Year Long or Semester 1 or 2)
Are you passionate about writing, reading and expressing your opinions? Are you good at or do you enjoy English? Are you considering studying English at college or do you want to be a writer, journalist or poet? Advanced English could be the class for you! In this class you will be expected to write creatively, read analytically and share your thoughts and opinions with others. The course will combine speaking and listening activities as well as the production of multimodal (digital) and written texts. Get creative, start writing and choose Advanced English!
**VOCATIONAL and APPLIED LEARNING**

**SOCIAL ACTION** *(Semester 1 or 2)*

Do you have an interest in your generation’s future? Do you want to make a difference in your world?

Are you ready for a project where you can help the environment or the world’s citizens? Yes… Sign up now to be the next Montrose Bay High Social Action team member. Social action involves understanding the world around us on a local, national and global scale and inquiring into ways that we, as active citizens, can make a difference to our environment or our people. Social action will run theory and practical classes.

In the theory classes students will learn about sustainability and measures we can take to lessen our ecological footprints. Focus will also be given to looking into how the environment can sustainably feed the projected future population of the world. Within the practical classes a student directed inquiry will be undertaken. Students will choose a feature of the world or its people that they currently feel is inadequate. After researching, students will develop an action plan; a plan that they will undertake to raise awareness or fundraise to support their chosen cause. Involvement in community based projects, such as tree planting, Clean up Australia Day and the 40 hour famine will give students great examples of how one person’s efforts can help a community or a whole nation.

**CHILD STUDIES** *(Semester 1 or 2)*

We will look at the changing needs of the child from conception to three years. This will allow students to:

- Investigate the development and needs of the child from conception to three;
- Research health and safety issues including nutrition, childhood illnesses and emergency care.
- Develop activities for children at different stages of development;
- Care for the virtual baby overnight, look at parenting models and evaluate equipment;
- Look at books for younger children and create their own books.

**GREEN TEAM** *(Year Long or Semester 1 or 2)*

This is a practical subject where students will look at a range of issues relating to sustainability in the school and home environment. This will include energy and water usage, waste management and self-sufficiency. Students will experience plant propagation from seeds and cuttings; site preparation and planting; soil testing, manures and composting; maintenance and harvesting. These activities will be based around our hothouse, vegetable garden, orchard and native plantings at the foreshore and creek. Students will learn through enquiry, demonstration and practical application.

**PRE DRIVER EDUCATION** *(Semester 1 or 2)*

This course is designed to assist students prepare for their learners test. It will include a detailed study of the Traffic Code, developing the attitude of a responsible road user, basic vehicle maintenance, requirements for getting a motorcycle license, understanding the implications of being a car owner. The majority of this course will be theoretical, with some practical exercises. It is aimed at those who are looking to build their confidence in these areas before getting behind the wheel of a car.

**SCHOOL MAGAZINE** *(Year Long or Semester 1 or 2)*

This is a varied course where you can work with your interests: Photography – taking, editing, and creating collages, designing yearbook pages, learning to use Photoshop and InDesign, writing funny captions or serious reports, co-ordinating with other students and staff.

**FOOD STUDIES** *(Year Long)*

This course will allow students to develop their knowledge and skill level through a variety of practical and theoretical experiences. There will be an emphasis on nutrition, hygiene and safe work practices as well as the development of skills in preparation and presentation of foods. In some instances, the design process will be used to allow students to develop recipes that reflect their areas of interest.
INTERNATIONAL FOODS  
(Semester 1 or 2)
Students will have the opportunity to explore the food and culture from a variety of countries and ethnic groups. There will be an emphasis on food safety, hygiene, preparation techniques and the components that go towards making a country’s food and culture unique.

FOOD FOR FUN  
(Semester 1 or 2)
Easter, Christmas, birthdays, barbecues, parties, charity fundraising and all things fun are all possible areas that could be included as part of this course. There will be an emphasis on planning and evaluation processes as well as the development of both practical skills and knowledge. There will also be an emphasis on hygiene, food safety and nutrition.

TEXTILES  
(Semester 1 or 2)
This course will allow students to develop their hand and machine sewing skills as well as their creativity in the completion of a variety of projects. From craft based projects to simple garment making, the techniques learnt should allow students to progress to more complicated items. There will be an emphasis on including projects that reflect student interest through the use of design briefs.

CREATIVE MATERIALS  
(Year Long or Semester 1 or 2)
Students will design and create products using a variety of materials including glass, fabrics, metal, stone, wood, and paint. With an emphasis on design, students will use various hand and power tools and explore finishing techniques.

CREATIVE METAL  
(Year Long or Semester 1 or 2)
Students will develop knowledge and skills associated with metalworking processes. They will work with various metals and tools, and experience a range of fabrication, fastening and finishing techniques. There will be a strong emphasis on design and finish.

CREATIVE WOOD  
(Year Long or Semester 1 or 2)
Students will work with a variety of timber materials and techniques to create various pieces of furniture. Along with the theory of working with timber there will be a strong emphasis on individual design, finishing techniques and sustainability.

COTTAGE CONSTRUCTION  
(Year Long or Semester 1 or 2)
The building industry is very vibrant, providing a sound career path for young people. Students would be given the opportunity to experience this through the construction of a small timber framed building. Techniques experienced would involve framing, pitching a roof, exterior wall cladding, installing gutters, Colourbond roofing, flashing, fixing windows, hanging doors, internal lining and painting.

ENGINEERING CONNECTIONS  
(Semester 1 or 2)
The built environment is the playground of the engineer. They are able the see and understand the forces and principles at play. Based on the popular TV show hosted by Richard Hammond of Top Gear, students will replicate experiments from the show that demonstrate engineering concepts. They will also formulate their own experiments to demonstrate an engineering concept found in the school environment.