



WHANGĀREI BOYS' HIGH SCHOOL

DEVELOPING BOYS INTO FINE MEN

CURRICULUM GUIDE

YEAR 10



2024

www.wbhs.co.nz

Key Dates

2023

Wed	2	Aug	Subject Selection Evening 5:30pm - 7:30pm For students in Years 9 - 12 selecting 2024 subjects Senior staff, Head of Faculty staff, and Deans will be available to discuss subject selection with students and parents/caregivers
Thu	3	Aug	Year 8 Open Evening 4:30pm - 7:00pm For students and parents/caregivers Tours will commence at 4:30pm, and the formal presentation will be from 6:00pm - 7:00pm Subject displays will be in the School Auditorium
Wed - Thu	9-10	Aug	Year 8 Enrolment Interviews in the School Auditorium Bookings are made through the School Office
Fri	11	Aug	Final day for online subject selection via parent portal for Years 10 - 13 students selecting 2024 subjects

2024

Tue - Fri	23 - 26	Jan	Years 9 – 13 Deans available for subject consultation for all returning students and new enrolments
Tue	30	Jan	First day of school, Y9 students and Y13 Prefects

USEFUL WEBSITES

Career Central – www.careercentral.school.nz

Vocational Pathways – www.youthguarantee.net.nz

Careers New Zealand – www.careers.govt.nz

Occupation Outlook app – www.occupationoutlook.mbie.govt.nz

Just the Job – www.justthejob.co.nz

Student loans and allowances – www.studylink.govt.nz

Fees Free, Tertiary Education Committee – www.feesfree.govt.nz



Year 10

Information

In year 10, students study the compulsory subjects of English, Mathematics, Science, Social Studies, Health and Physical Education for the whole year. They also pick 6 option subject which run for half of the year.

OPTION SUBJECTS:

- Option subjects run for half of the year unless stated.
- Six option subjects are chosen.
- The selection must include at least one from Art, Drama, Junior Performing Arts, Photography and Design, and/or Music.
- The selection must include one of Design and Visual Communication, Digital Technology, Electronics, Food Technology, Materials Technology Metal, Materials Technology Wood, and/or Product Design.

Students may pick from:

- | | | |
|--|-------------------------------------|---------------------------------------|
| • Agriculture/Horticulture | • Enterprise | • Music |
| • Art | • Food Technology | • Outdoor Education |
| • Classical Studies | • History | • Photography and Design |
| • Accounting | • Geography | • Japanese |
| • Design and Visual Communication | • Junior Māori Arts | • Spanish |
| • Digital Technology | • Junior Performing Arts | • Sports Specific Training |
| • Drama | • Materials Technology Metal | • Te Reo Rangatira (full year) |
| • Economics | • Materials Technology Wood | • Wealth by Stealth |
| • Electronics | | |

There will also be a supported learning class with smaller numbers and consistent teaching across the compulsory classes. Students are placed in this class in consultation with whānau.

During subject selection, guidance is available from Whānau Teachers, Deans, Subject Teachers and the Careers staff at WBHS. Students are encouraged to take a broad range of subjects.

NCEA Realignment

Over the next few years, NCEA will transition from its current form into the new qualification. On the current time line, the new Te Reo Matatini me te Pāngarau | Literacy & Numeracy co-requisite is set to become a mandatory part of the qualification from 2024. It is a package of standards that sit outside of the 60 credits learners need for each

level of NCEA. These new standards assess learners on important foundational skills that will help them succeed in NCEA, further learning, life, and work.

To get the co-requisite, learners need to achieve the ten credits in:

a) either the Te Reo Matatini OR Literacy standards
AND

b) either the Pāngarau OR Numeracy standard

All learners will need to achieve the co-requisite in order to be awarded their NCEA qualification at any level. It can be achieved at any time from Year 9 – teachers will help learners to know when they are ready to be assessed against the standards and many students will have completed this by the end of Year 10.

POINTS TO NOTE

YEAR 9

Students study 6 compulsory subjects and 6 option subjects. The selection must include at least one of the Te Reo Māori options, one Technology option and one from the Arts.

YEAR 10

Students study 6 compulsory subjects and 6 option subjects. The selection must include at least one option from the Arts and one from Technology.

YEAR 11

Mathematics and English are compulsory. Students study six subjects all year.

YEAR 12

Students select six subjects and a spare. It is important to identify subjects that lead to the trades and those that prepare students for University Entrance. It is possible to repeat Level 1.

YEAR 13

Students select five subjects and a spare. They may also select from Year 11 and 12 subjects.

SUPPORTED LEARNING

Extra learning support in a safe environment for those who do not cope with the structure of secondary school.

✓ **These subjects are compulsory**

* Option subjects

+ Approved subjects for University Entrance

Faculty	Year 9	Year 10
The Arts	<ul style="list-style-type: none"> * Art * Drama * Music 	<ul style="list-style-type: none"> * Art * Drama * Music * Junior Performing Arts * Photography and Design
Health and Physical Education	<ul style="list-style-type: none"> ✓ Health ✓ Physical Education * Outdoor Education * Sports Specific Training 	<ul style="list-style-type: none"> ✓ Health ✓ Physical Education * Outdoor Education * Sports Specific Training
Languages	<ul style="list-style-type: none"> ✓ English ✓ Te Reo Māori * Te Reo Māori (full year) * Japanese * Spanish * Junior Māori Arts * ESOL * Foundation Skills 	<ul style="list-style-type: none"> ✓ English * Japanese * Junior Māori Arts * Te Reo Rangatira * ESOL * Spanish
Mathematics	<ul style="list-style-type: none"> ✓ Mathematics * Foundation Skills 	<ul style="list-style-type: none"> ✓ Mathematics
Sciences	<ul style="list-style-type: none"> * Agriculture/Horticulture ✓ Science 	<ul style="list-style-type: none"> * Agriculture/Horticulture ✓ Science
Social Sciences	<ul style="list-style-type: none"> * Innovation Stations * The World of Money * Ancient Mythology * Tourism ✓ Social Studies 	<ul style="list-style-type: none"> * Accounting * Enterprise * Economics * Wealth by Stealth * Classical Studies * History * Geography ✓ Social Studies
Technology	<ul style="list-style-type: none"> * Materials Processing (Wood & Metal) * Digital Technology * Design & Visual Communication * Food Technology * Robotics & Electronics 	<ul style="list-style-type: none"> * Digital Technology * Electronics * Materials Technology Metal * Materials Technology Wood * Design & Visual Communication * Food Technology * Product Design





	Year 11 - Level 1	Year 12 - Level 2	Year 13 - Level 3
	Art Digital Art Drama Music	Art Design Art Painting Drama Music Photography	+ Art Design + Art Painting + Drama + Music + Photography
	Health Physical Education Physical Well-being Outdoor Education* Personal & Social Development Senior Rugby Academy	Health Physical Education Physical Well-being Outdoor Education* Personal & Social Development Senior Rugby Academy	+ Health + Physical Education Physical Well-being Outdoor Education* Personal & Social Development Senior Rugby Academy
	English English Language & Communication Japanese Senior Māori Arts Te Reo Rangatira ESOL Spanish	English English Language & Communication Japanese Senior Māori Arts Te Reo Rangatira ESOL	+ English English Language & Communication + Japanese Senior Māori Arts + Te Reo Rangatira ESOL
	Mathematics with Algebra Mathematics with Statistics Mathematics Numeracy	Mathematics with Externals Mathematics with Internals	+ Mathematics with Calculus + Mathematics with Internals+ + Mathematics with Statistics
	Agriculture/Horticulture Science External Science Primary Industries	Agriculture/Horticulture Science Biology Chemistry Physics Forestry Primary Industries	+ Agriculture/Horticulture (FarNet) + Science + Biology + Chemistry + Physics Forestry
	Geography History Commerce	Accounting Business Studies Economics Sales & Customer Service Tourism & Travel Classical Studies Geography History Psychology	+ Accounting + Business Studies + Economics Sales & Customer Service Tourism & Travel + Classical Studies + Geography + History + Psychology
	Design & Visual Communication Digital Technology Electronic Products Advanced Engineering Advanced Woodwork Engineering Trade Academy Food Technology Product Design	Design & Visual Communication Digital Technology Electronic Products Pre-trade Engineering Pre-trade Woodwork Engineering Trade Academy Food Technology Pre-trade Automotive	+ Design & Visual Communication + Digital Technology + Electronic Products Pre-trade Engineering & Automotive Pre-trade Woodwork

** Subject to confirmation*



VOCATIONAL PATHWAYS

Creative, Cultural & Recreational Industries

- Actor
- Advertising Executive
- Animator
- Artist
- Copywriter
- Fashion Designer
- Graphic Designer
- Musician
- Photographer
- Publisher
- Stage/Set Designer
- Web Designer

Health, Community & Social Industries

- Ambulance Officer
- Chiropractor
- Counsellor
- Dentist
- Doctor
- Educator
- Nurse
- Osteopath
- Pharmacist
- Physiotherapist
- Surgeon
- Social Worker

Services Industries

- Aviation
- Bar Manager
- Baker
- Chef
- Customs Officer
- Firefighter
- Hairdresser
- Hospitality Worker
- Cleaner
- Police Officer
- Retail Salesperson
- Hotel/Restaurant Manager
- Travel Agent

Primary Industries

- Animal Attendant
- Beekeeping
- Dairy Farmer
- Ecologist
- Forestry
- Fishery Officer
- Horticultural Worker
- Landscape Gardener
- Marine Biologist
- Microbiologist
- Winemaker
- Veterinarian

Construction & Infrastructure Industries

- Architect
- Builder
- Carpenter
- Driller
- Electrician
- Glazier
- Mining
- Planner
- Plumber
- Roading
- Roofing
- Surveyor

Manufacturing, Engineering, Logistics & Technology Industries

- Automotive
- Boat Builder
- CAD Operator
- Designer
- Truck Driver
- Engineer
- Fabrication
- Machine Operator
- Photographer
- Fork-lift Operator
- Programmer
- Technician
- Telecommunications
- Website Developer



Note: English and Mathematics are compulsory until NCEA Level 1.

It is important to include English, Mathematics and Science for most career options.

- | | | | |
|-------------------------|-----------------|----------------------|----------------------------|
| • Drama | • Media Studies | • DVC | • Maths |
| • Dance | • Art Design | • Science | • Biology |
| • Māori Performing Arts | • Art | • Digital Technology | • Outdoor Education |
| • Music | • Photography | • Physical Education | • Sales & Customer Service |

- | | | | |
|-------------|-------------|------------------|--------------|
| • Science | • Physics | • Social Studies | • Statistics |
| • Health | • Biology | • History | |
| • Chemistry | • Language | • Psychology | |
| • Maths | • Geography | • Economics | |

- | | | | |
|----------------------------|--------------|----------------------|-------------------|
| • Business Studies | • Accounting | • Languages | • Hospitality |
| • Economics | • Geography | • Digital Technology | • Psychology |
| • Sales & Customer Service | • Tourism | • Science | • Food Technology |

- | | | |
|--------------------------------|--------------|----------------------|
| • Agriculture/
Horticulture | • Chemistry | • Primary Industries |
| • Economics | • Accounting | • Biology |
| • Science | • Forestry | • Business Studies |

- | | | | |
|-------------|--------------|-------------------------------|----------------------------|
| • Woodwork | • Automotive | • Geography | • Language
Rich Subject |
| • DVC | • Science | • Sales & Customer
Service | • Calculus |
| • Metalwork | • Physics | • Digital Technology | |
| • Maths | • Chemistry | | |

- | | | | |
|-------------|----------------------|----------------------------|---------------|
| • Maths | • Physics | • Language
Rich Subject | • Woodwork |
| • Sciences | • Chemistry | • Geography | • Calculus |
| • Metalwork | • Digital Technology | • Automotive | • Electronics |

ARTS FACULTY

ART (10ART)

WHO ARE WE
I AM ME

This course is designed to extend students in the area of visual arts, giving a strong foundation in drawing, painting, printmaking and mixed-media techniques. A range of exercises informed by Contemporary New Zealand and International artists and their practice, will encourage students to explore personal creativity while addressing their personal, cultural and environmental identity.

Duration: One semester

Entry requirement: Although it is preferential to have done Year 9 Art, it is not essential.

Cost: Take home component \$10

Contact person: Mrs V. Luders

PHOTOGRAPHY AND ART DESIGN (10PAD)

DOUBLE EXPOSURE

This course will introduce students to Photography and Photoshop foundation skills which will be a stepping stone for Year 11 PAD. Essential skills will be taught through a thematic approach combining Photography and Design.

Duration: One Semester

Entry requirement: Although it is preferential to have done Year 9 Art, it is not essential

Cost: Take home component \$10

Contact person: Mrs V. Luders

DRAMA (10DRA)

This course continues working on students' cooperative learning skills through group tasks. Students will become familiar with drama techniques, elements and conventions. They will be given the opportunity to show their understanding of these drama aspects through performance assessments.

Students will perform scenes from plays, learn about a variety of theatre styles, develop improvisation skills and have the opportunity to devise their own drama within a group.

Duration: One semester

Entry requirement: Willingness to perform in front of peers. Successful participation in year 9 Drama is preferred.

Cost: There will be further charges necessary to help pay for viewing live performances throughout the year.

Contact person: Ms F. Churcher

MUSIC (10MUS)

This is an option subject that develops practical and theory components of music making. The course is based on playing instruments, creating music on digital audio workstations, music/sound technology and developing music knowledge skills. Students are strongly encouraged to take advantage of the free itinerant music teaching programme to learn instruments such as trumpet, saxophone, keyboard, guitar, drums, flute and clarinet. Students who show advanced performance skills will be encouraged to attempt Level 1 performance achievement standards 91090 and 91091. This course leads to NCEA Level 1 Music.

Duration: One semester

Cost: A contribution towards field trips may be required

Contact person: Ms V. Hill

HEALTH, PHYSICAL EDUCATION & OUTDOOR EDUCATION FACULTY

HEALTH (10HLT)

This course assists students and builds on the learning experiences of Year 9:

- Develop the knowledge, understandings, skills and attitudes needed to maintain and enhance personal health and physical development
- Develop understandings, skills and attitudes that enhance interactions and relationships with other people
- Participate in creating healthy communities and environments by taking responsible and critical action

Duration: Full year

Contact person: Mr. S Huurnink

OUTDOOR EDUCATION (10OED)

This course assists students in developing personal growth and technical skills within the outdoors. This course is designed to imbue students with a sense of leadership and the ability to work together as a team.

This course involves a variety of outdoor pursuits that include:

- Adventure based learning/ Problem solving and teamwork activities
- Navigation/ Orienteering
- Bushcraft
- Rope skills
- First aid

Duration: One semester

Contact person: Mr S. Huurnink

PHYSICAL EDUCATION (10PE)

This course builds on the learning experiences of the Year 9 course with continued emphasis on participation in a range of physical activities aimed at Level V of the Health and Physical Education curriculum.

Duration: Full year

Contact person: Mr P. Tyslic

SPORTS SPECIFIC TRAINING (10SPT)

This course looks to develop young sportsmen by having a better understanding of how to be fitter, faster and stronger.

This course will cover:

- Fitness testing
- Speed training
- Introduction to weight training
- Sport coaching
- Principles of training

Duration: One semester

Contact person: Ms S. Penney

INCLUSIVE LEARNING EDUCATION FACULTY

SUPPORTED LEARNING (10T)

A Supported Learning class operates in Year 10 for boys who have learning challenges or may struggle with the structure of a secondary school setting. This provides students additional support maximising the opportunity to find success with the secondary curriculum. At times the year 9 and 10 Supported Learning classes will work collaboratively in core subjects. This will provide opportunities for tuakana teina, enabling positive relationships to develop.

Contact persons: Mrs. M. Cross
& Mrs. L. du Preez

LANGUAGES FACULTY

ENGLISH (10ENG)

This compulsory course prepares students for the challenges of NCEA Level 1 English, including the Literacy Standards. Opportunities to develop reading, writing, presentation and oral skills are provided through two semester-based thematic units.

Duration: Full year

Contact person: Ms K. Walton



ESOL (10ESL)

This is a basic English language course for students with English as a second language. It covers reading, writing, listening, speaking and grammar skills. This course is designed to give students English communication skills and to increase their confidence in using English in everyday situations as well as in the classroom setting to access the New Zealand curriculum.

Duration: Full year

Entry requirement: Pre-entry test

Contact person: Mrs S. Khan

JAPANESE (10JAP)

This course gives the student an opportunity to increase their language skills and learn more about the culture of Japan.

Topics covered are:

- Mastery of the Katakana syllabary and further development of the Kanji script
- Family and occupations
- Spare time activities and sports
- School life
- Cultural practices - festivals, food and pop culture

Duration: One semester

Entry requirement: Completion of Year 9 Japanese course is recommended.

Contact person: Ms R. Murphy

JUNIOR MĀORI ARTS (10JMA)

This exciting course covers advanced themes of Kapahaka, Mau Rākau, māori design techniques and lots of fun games like Pūkana, Whakaropi and Maui/Matau. Junior Māori Arts also creates a pathway to Senior Māori Visual and Performing Arts. Nau mai, Pūkana mai!

Topics covered are:

- Mau Rākau
- Kapahaka
- Tikanga and Kai Māori
- Mihimihi
- Traditional games

Duration: One semester

Contact person: Matua Willie Cooper

SPANISH (10SPA)

This course gives the student an opportunity to increase their language skills and learn more about the cultures of Spain and South America.

Topics covered are:

- Likes and dislikes
- Classroom language
- Family and occupations
- Spare time activities
- Weather and seasons
- Descriptions
- Spanish food

Duration: One semester

Contact person: Ms A. Paul

TE REO MĀORI (10TRM)

This course is for students who want to build up their reo and prepare for the senior classes.

Topics covered include:

- Tāngata rongonui (A well-known personality)
- Tōku ao (My world)
- Nga pūrongo (event writing)
- Mahi a rēhia (my interests)

Grammar, kōrero and writing on the above topics are the focus areas. Haere mai tama mā kia ako to tātou reo rangatira. Mauria mai oū pūkenga ki te whare o Te Aka Matua.

Duration: Full year

Entry requirement: Year 9 Te Reo Māori or HoD approval

Contact person: Matua Willie Cooper

FOUNDATION SKILLS (10FLN)

This course is designed to provide targeted literacy and numeracy support to students with gaps in their knowledge. By doing this, students will be better prepared to undertake the new co-requisite standards for Numeracy and Literacy (reading & writing). These standards are essential for students to receive their NCEA Level One certificate. By focusing on foundational skills, students will increase their chances of success.

Topics covered include:

Literacy

- Punctuation and grammar
- Reading comprehension
- Planning, drafting, and editing writing
- Understanding how purpose and audience shape text(s)

Numeracy

- Improve and apply basic facts in a real context
- How to drive a calculator
- Mathematical literacy
- Building resilience through problem solving

Duration: One semester

Contact persons: Mr R. Price, Mrs D. Williamson, & Mrs K. Trimmer

MATHEMATICS FACULTY

MATHEMATICS (10MAT)

Year 10 Mathematics explores and develops the ideas and content from Levels 4, 5 and 6 of the New Zealand Mathematics Curriculum. Learning will occur within a variety of meaningful contexts to help develop the ability and inclination to use mathematics and statistics to solve problems. Students are given the opportunity to sit the level 1 numeracy co-requisite. Results from this course will help to determine class placement in Year 11.

The topics taught in Year 10 are:

- Number
- Algebra
- Geometry
- Measurement
- Statistics
- Probability

Duration: Full year

Equipment recommended: Casio 9750 or 9860 Graphic calculator or an FX82 Calculator

Contact person: Mr R. Price

SCIENCE FACULTY

AGRICULTURE/ HORTICULTURE (10AHS)

Research and recording skills will be developed through project work and recording the results of practical work. An agricultural unit has been included in the course to stimulate interest in farming and other land-based industries.

The course structure will be:

- Garden planning
- Plant husbandry
- Types & uses of plants
- Soils - plant propagation
- Plant structure
- Agriculture
- Environment
- Pests and diseases

Duration: 20 weeks

Entry requirement: Open entry

Contact person: Mr D. Jennings

SCIENCE (10SCI)

This course continues to develop the skills and processes that have been introduced at Year 9 through topics from the following strands:

- The Living World
- The Material World
- The Physical World
- Planet Earth and Beyond

Duration: Full year

Cost: Kiwi Science Competition approx. \$10 (optional)

Contact person: Mrs F Barton



SOCIAL SCIENCE FACULTY

SOCIAL STUDIES (10SOS)

Social Studies is a broad subject that combines aspects of History, Geography, Psychology, Tourism, and Economics. It examines the past, present, and future and encourages students to consider their place in the world and how they can be active, informed and socially conscious citizens.

Four major units of learning are covered:

- Sustainability
- Human Rights
- Responses to Ti Tiriti o Waitangi
- Game changers

Includes a field trip to Waitangi Treaty Grounds in Term 3 (dependant on funding and other factors).

Duration: Full year

Contact person: Ms L. Ross

CLASSICAL STUDIES (10CLS)

Classical Studies is the study of the Greek and Roman civilisations and their art, history, culture, society, and literature. This class welcomes anyone with an interest in the Classical Greek and Roman world. Topics covered include Warfare in the Ancient World, Greek Mythology, Life in Ancient Athens, the Trojan War, and the buried city of Pompeii.

Duration: One semester

Contact person: Mr R. Burrows

GEOGRAPHY (10GEO)

Geography seeks to provide students with a general knowledge of how our world works, from the structure of our planet, the geology of the land beneath our feet, to oceans that flow around the globe, the marine environment below the surface, and the weather we encounter. Students will learn about continents, countries and the flags which represent each nation, as well as natural disasters and the human impact, including how we can prepare for the future by redesigning the urban planning of a New Zealand City.

Topics covered include:

- Earthquakes, tsunamis, GIS mapping, disaster planning (survival pack)
- Orienteering and map reading
- Oceans, water currents and rivers, coral reefs and marine trenches
- Hurricanes and typhoons, tornadoes, weather, climate and use of the school weather station
- Urban planning and development (infrastructure development and city planning)

Cost: There may be a cost for fieldwork

Duration: One semester

Contact person: Mrs S. Connor

HISTORY: MYTH AND REALITY (10HIS)

This course is for anyone who is interested in learning about the history of New Zealand and the controversial events and myths in our past. Students will uncover the truth behind the events that have shaped our understanding of the past and how these have influenced our view of ourselves as Kiwis.

Topics include:

- Becoming a historian - a local/family research topic
- NZ and the Springbok Tour - Rugby, racism, and Apartheid
- Pandemics and Medicine - from the Black Death to the Spanish Flu

Key skills include understanding differing perspectives and researching using primary sources.

Duration: One semester

Contact person: Mr R. Burrows

WEALTH BY STEALTH (10WBS)

This project-based course establishes essential financial capability skills and will help students learn how to create their own wealth.

In this subject students will learn about:

- Currency exchange
- Kiwisaver and Savings
- Buying a Property
- Investing in shares and cryptocurrency
- Investing in a business

Duration: One semester

Contact person: Mr T. Yung

ACCOUNTING (10ACC)

Do you want to learn the language of business? This half year course introduces students to the financial wizardry of Individual and Business Accounting.

In this subject students will learn about:

- Types of Business Ownership
- The Accounting Equation
- Income, expenses, assets, and liabilities
- Processing and analysing transactions
- Preparing Income Statements and Statements of Financial Position
- Preparing a budget for an individual

Duration: One semester

Contact person: Mr T. Yung

ENTERPRISE (10ENT)

This course promises to be an exciting half year where students develop their entrepreneurial capability, design, produce and sell their very own product with the aim of gaining profit (whilst learning some great skills along the way).

Some key content areas include:

- Business Basics
- Innovation and Entrepreneurship
- Product development
- Intellectual Property
- Marketing
- Sales and Customer Service

Duration: One semester

Contact person: Mr T. Yung

ECONOMICS (10ECO)

Get the lowdown on how the economy actually works.

Learn about:

- Businesses – how they make decisions about production
- Households – the world of work and what households spend their money on
- Taxation – who pays tax and is it fair and what does the Government do with the money?
- Interest and exchange rates – how they interact with saving and investment, exports and imports
- Booms and busts – how does the Government keep control of our economy?

Duration: One semester

Contact person: Mr T. Yung

TECHNOLOGY FACULTY

DESIGN & VISUAL COMMUNICATION (10DVC)

This course of study equips students to use a design process to create a unique solution. The Year 10 programme builds on the core skills learned in Year 9 and provides the essential skills and learning for success at Year 11. DVC seeks to enable students to communicate ideas clearly and precisely through:

- Freehand drawing and rendering techniques
- Developing aesthetic awareness in students

At Year 10 the programme centres on:

- How to develop and refine design ideas to a final outcome
- Multi-view drawing and sectioning
- Modelling
- Perspective illustration
- CAD programmes; Google Sketchup and 2D Design

Duration: One semester

Equipment required: 2H and F pencils and eraser

Contact person: Mr. D. De Weerd

DIGITAL TECHNOLOGY (10DGT)

In this course the emphasis is on developing a broad range of skills in communicating information and ideas, and in accessing, planning, managing, and processing information. Successful completion of the course is a pre-requisite for entry into Level 1 Digital Technology in Year 11. All other applicants will be tested for entry to Year 11.

- Word processing - letters, reports and articles - Word
- Spreadsheets - budgeting and graphical presentation of data - Excel, formula
- Desktop publishing - posters, flyers, newsletter design - Publisher
- Graphics - photo editing, visual effects – Adobe Photoshop, GIMP
- Game programming - Scratch
- Web design - basic web page design – Adobe Dreamweaver, Notepad ++
- Presentations - digital presentations – PowerPoint
- Planning and creating a computer program - Python programming

Duration: One semester

Contact person: Mr J. Clark

ELECTRONICS (10ELE)

This is an introductory course for students interested in Electronics and Design.

The course is based around the study of the component theory, the investigation of circuit designs, and the building of practical electronic products.

Students will be taught:

- Soldering techniques
- PCB production techniques
- Component recognition
- The theory of electronics
- PCB Design (including the use of CAD)
- Circuit testing and fault finding
- Robot building and programming

Duration: One semester

Entry requirement: At HoD discretion

Equipment required: 2 Ltr container, A4 folder, file dividers, lined pad, and a USB flash drive

Cost: Take home component \$25 (approx.)

Contact person: Mr J. Anderson

FOOD TECHNOLOGY (10FOOD)

This course is open to all year 10 students. Increase your cookery skills and knowledge leading into Level 1. The course covers the following topic:

- Affordable and healthy kai
- Cuisine from around the world
- Shared vision; (Students learn to design, produce and develop their own food product for home.)
- Preserving Foods

Duration: One semester

Entry requirement: At HoD discretion

Equipment required: Covered shoes

Cost: Take home component TBC

Contact person: Mr.T Hayman

MATERIALS TECHNOLOGY WOOD (10TMW)

Students will learn about and implement the design process to solve a problem or need. Practical projects will be produced with each design project.

This semester based course, provides students with an introduction to working with wood and construction materials. Scaffolding learning opportunities and experience needed to make an informed choice regarding this subject at a senior level, and introduce the student to the possibilities of careers in Carpentry, Building and associated trades.

Duration: One semester

Entry requirement: At HoD or TiC discretion

Cost: Take home component \$20 (approx.)

Contact person: Mrs. S Byrne

MATERIALS TECHNOLOGY METAL (10TMM)

Students will develop skills and safety practices, using both hand, and machine tools. Practical projects will be produced with each design project.

This semester based course, provides students with an introduction to working with ferrous and non-ferrous materials. Scaffolding learning opportunities and experience needed to make an informed choice regarding this subject at a senior level, and introduce the student to the possibilities of careers in the Engineering, Automotive and the many associated trades.

Duration: One semester

Entry requirement: At HoD or TiC discretion

Cost: Take home component \$20 (approx.)

Contact person: Mrs. S Byrne

PRODUCT DESIGN (10PRD)

This course is designed to complement the Year 10 Electronics and DVC courses and build skills that will lead on to Year 11 Product Design.

The course will centre around three design and make projects, looking at a variety of materials and different design processes.

Students will learn to combine art, science and technology to design and create their products, utilising computer aided design and manufacture.

Product design will teach students to:

- Effectively communicate design ideas through freehand drawing and rendering techniques
- Develop these ideas through to a viable outcome
- Refine and communicate their final design ideas through the use of 2D and 3D computer software
- Recognise the properties and limitations of different types of resistant materials
- Construct their finished design to a high standard

Duration: One semester

Entry requirement: At HoD discretion

Equipment required: An A4 sketch pad, USB flash drive, pencils, coloured pencils, eraser, etc

Cost: Take home component \$20 (approx.)

Contact person: Mr. D. De Weerd





WHANGĀREI BOYS' HIGH SCHOOL

DEVELOPING BOYS INTO FINE MEN

CONTACT US

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