

Year 9 PROJECTS 2019



Contents

CODES	3
THEATRESPORTS	4
YOU'RE PUTTING ON A PLAY	4
CAKE ART	5
EDIBLE GIFTS	5
FASHION DESIGN	6
HAND MADE	7
GUITAR CHICK	8
OUTDOOR EDUCATION	9
SPORT AND RECREATION	10
DOLLARS AND SENSE	11
WHO WANTS TO BECOME A BUSINESS TYCOON	13
ARE YOU A PUBLIC SPEAKER IN HIDING	14
MICROBE DETECTIVE	15
ROBOGALS	16
COSMETICS AND CONSUMER TESTING	17
DANCE STYLES	18
HUMAN POWERED VEHICLE - ENERGY BREAKTHROUGH	19
SINGSTAR	19
SPAGHETTI MACHINES	20
FUN WITH TYPE	20
HOLLYWOOD HERE I COME	21
THE PHYSICS OF SUPERHEROES	22
HIGH SCHOOL MUSICAL	23
WOMEN DO ANIMATE	24
WIZARD'S APPRENTICE CHESS	25
WIZARD'S CHESS	26

CODES

CODES

ARE YOU A PUBLIC SPEAKER IN HIDING?	9PS
CAKE ART	9CAK
COSMETICS AND CONSUMER TESTING	9COS
DANCE STYLES	9DS
DOLLARS AND SENSE	9DAS
EDIBLE GIFTS	9EG
FASHION DESIGNS	9FD
FUN WITH TYPE	9FWT
GUITAR CHICK	9GUI
HAND MADE	9HM
HIGH SCHOOL MUSICAL	9HSM
HOLLYWOOD HERE I COME	9HIK
HUMAN POWERED VEHICLE- ENERGY BREAKTHROUGH	9HPV
MICROBE DETECTIVE	9MD
ROBOGALS	9ROB
SINGSTAR	9SS
SPAGHETTI MACHINE	9SM
SPORT AND RECREATION	9SR
THEATRESPORTS	9TS
THE PHYSICS OF SUPERHEROES AND VILLAINS	9PHY
OUTDOOR EDUCATION	9OED
WHO WANTS TO BECOME A BUSINESS TYCOON?	9BT
WIZARD'S APPRENTICE CHESS	9WAC
WIZARD'S CHESS	9WC
WOMEN DO ANIMATE	9WDA
YOU'RE PUTTING ON A PLAY	9POP

THEATRESPORTS

Theatre sports offers you the opportunity to learn a whole bunch of Theatre Sports games and improvisation



activities in a safe and friendly environment where you can take risks, have fun, make mistakes and learn lots about theatre and stagecraft. After you have learnt all the games you will have the opportunity to design a stage and learn how to use sound, lighting and make-up so that we can present a small Theatre Sports Show to the rest of Year Nine one lunch time at the end of term. We will also have the opportunity to see a professional play so that we can see how they use stagecraft to perform a play.

YOU'RE PUTTING ON A PLAY.

YOU write the script, YOU cast the actors, YOU choose the venue, the stage set up and the audience. YOU set and operate the lights, build



the sets and YOU source/make/beg/borrow the costumes. It's all up to you with the HELP of a teacher who can advise, HELP direct, arrange permissions and supervisions. But mostly, it's all YOURS. AND YOU

CAKE ART

Would you like to learn to make cakes for a special occasion? In this project you will investigate, design, produce and evaluate your own concept of a decorated cake for a special occasion of your choice. You will plan and design your cake using technical drawing skills and computer aided design. You will then learn how to use and create with sugar paste to decorate your design using various shaping and moulding techniques. You will follow your own set plan to achieve the desired result. Concepts of balance, harmony, colour mixing and the use of contrast and highlight features whilst decorating will be explored. Skills developed could be used for a future home business opportunity!



EDIBLE GIFTS

Join this exciting class and see what it would be like to create your own gourmet homemade sweets, jams, cordials, butters & cookies. Design your own hamper. Label and package your own gifts. In this project you will be inspired, you will design, you will cook each week and end up with a gourmet hamper to take home!



FASHION DESIGN

Do you like designing clothes? This is a project for those “fashionistas” who would like to learn how to draw like a professional fashion designer. You will



learn how to use different techniques and media to achieve spectacular results. This project could prepare you for folio preparation in senior levels or be a way to develop your drawing and designing skills. This is purely a designing course and garments will not be made.

HAND MADE

Do you enjoy working with your hands? Being creative? Having fun using different materials? This fun workshop will give you options-choose what you want to make...wind chimes/ your own chop sticks/ dried flower displays/ cake stand/ treasure & pencil boxes and more! In this workshop you will be inspired, you will design, and you will make hand crafted items of your choice.

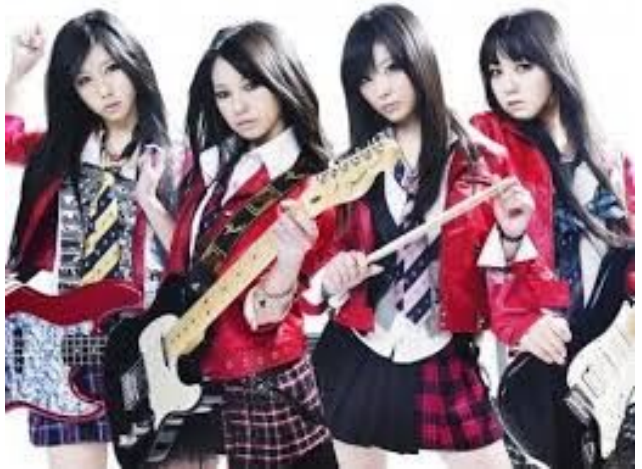


GUITAR CHICK

Always wanted to learn the guitar but never had the chance? Well, this is the moment you've been waiting for!

In this project you will learn the basics of guitar technique, including playing chords and riffs. You will learn songs on the guitar for solo playing and group playing, and will have the chance to learn how to play music of your choice.

No previous guitar experience is required. All you need is some enthusiasm and a willingness to learn a new skill. Also, every student who undertakes this project, will be provided with their own guitar for the term!



OUTDOOR EDUCATION

Do you want to challenge yourself in an exciting outdoor adventure? If so, Outdoor Education is for you!!

Over the 10 weeks the class will complete the “Adventurous Journey” section of the Award where you will choose what bushwalk you want to explore and navigate your own way through it. You will work together in groups to cook your own meals, pitch a tent and sleep in the great outdoors.

Selecting this subject involves a day bushwalk and an overnight bushwalk which will cover terrain that includes lookouts, National Forest, wildlife (kangaroos, koalas, wombats etc),



waterfalls and much more.

To prepare for these bushwalks you will learn how to read a map and navigate yourself through walking tracks, learn to pack and carry an overnight backpack, understand the nutritional value of a well cooked dinner using Trangias (portable stoves), understand the importance of good footwear and outdoor clothing and learn how to pitch a tent without it falling down!!

So get active and try something different and choose this project NOW!!

SPORT AND RECREATION

Have you thought about a career in Sport and Recreation? If you enjoy getting out of the classroom and experiencing hands on learning, then this project is for you.

This project is both a practical and theory based subject with a sport and recreational focus. During this project you will gain experience with and undertake activities that will prepare you to run a sporting event with Junior levels, provide you with a head start into the Sport and Recreational field as well as preparing you for the demands of the Year 11 VET course “Sport and Recreation”.

In order to do this, you will participate in activities such as sports injury prevention, peer coaching tasks, development of fundamental skills with primary school students, visits to local sporting facilities/ associations, sports promotion and how to plan and run a sporting event. You will also gain hands on coaching experience as well as an understanding of how athletes performance may be impacted or enhanced through an introduction to Sports Psychology.

Over the ten weeks, this project will involve theory and practical sessions including incursions and excursions to further develop your knowledge of Sport and Recreation. You will gain many skills throughout this unit, such as the ability to work within a team, planning and organisational skills and will gain a strong understanding of what it takes to be a leader.



DOLLARS AND SENSE

It's a challenging world out there.

There are so many awesome things you want to buy, but you may not have enough money to buy all of them! Especially once you have paid for necessary things like food, public transport and rent. Budgeting and saving can help, but major purchases require a loan, and that will mean costs for repayment and interest.

Do you have the skills you need?

This project will focus on financial maths and cover concepts like simple interest, compound interest, depreciation, tax, credit and budgeting.



WHO WANTS TO BECOME A BUSINESS TYCOON?

Have you ever wondered what does it take to be a successful business person?

Then go no further. Learn to develop the necessary skills and talent to begin an entrepreneurial career in business by setting your own business enterprise. What are your major strengths and personal qualities? Look at case studies of different business people and different business enterprises to determine how success is gauged.

Visit a local business and find out about how they set up their work place and how they run their business. Compare as many different types of businesses as possible to see why some are more successful than others.

What career pathway would you like to follow for the future? Come and explore some ideas and follow your dreams. Learn to identify your life-long learning pathway. What strengths have you developed? What type of person are you? What do you like to do for fun? Who are the people you most admire and why?

Overall discover how to maximise your talents and strengths



ARE YOU A PUBLIC SPEAKER IN HIDING??

*Is public speaking your greatest fear? It is time to say goodbye...and turn it into your **oldest friend!!***

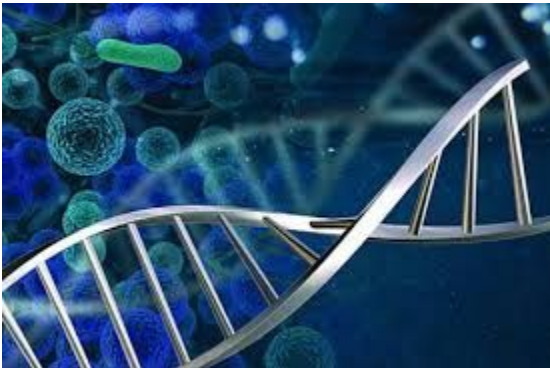
This *fabulous* unit will have you learning about and watching great speeches, playing speaking games and confidently writing and delivering a fantastic speech to your peers. Public speaking is one of the most important skills we can learn and one that will be useful throughout **YOUR** life whether at school for oral presentations or the debating team, family functions and in the workplace.

This unit guarantees that you will be well on your way to excellent speaking skills and have heaps of fun at the same time. In our *friendly* class we will learn about the many *amazing* styles of public speaking strategies for being cool, calm and charming while giving a speech and all the nuts and bolts of writing a speech that will *inspire and interest* your audience.



MICROBE DETECTIVE

Micro-organisms are everywhere but we can't see them. They make us sick but we can't live without them. Microbes are an integral ingredient in this planet's ecosystem, but we understand so little about them. Most of us think of microbes as disease-causing germs if we think about them at all. Yet those who study this mysterious, silent, invisible world know that the creatures that populate it do far more good than harm. During this project, you will have the opportunity to investigate the different kinds of microbes and how they can be identified in the laboratory. A number of practical activities will be conducted and you will gain a greater understanding about these organisms and how our bodies 'fight them off' as well as appreciate all the good that they do for us! Are you ready to solve the problem?



ROBOGALS

Aim to inspire the Future Female Engineer in you. We will use programmable robots to teach you the principles of robotics, programming, algorithms and engineering with fun and creative practical tasks and projects. You will fulfill every young Evil Mastermind's dream of creating an army of robots to do your biddings and maybe one day take over the world.

Ps. If you've read the previous sentence and instinctively followed it with an evil laugh, this is for you.

PPs. No prior experience in robotics necessary or need to be a Robot yourself to participate.

Do you know Margaret Hamilton, the woman who saved the Apollo space mission with her programming skills? Do you know Ada Lovelace, the woman who invented programming?

They were certainly impressive role models, but one thing they never did was to make a robot dance with their programming skills.

Join our Robot dance competition, where you will learn how to program our resident AI (artificial intelligent) robot to dance. The best dance moves wins.

Whether it be Gangnam style, the Macarena or the Moonwalk, if you can imagine the move, we can make ROBOTS groove.



COSMETICS AND CONSUMER TESTING

This project invites students to discover how to make some basic beauty products such as cleansers, cold cream and lip glosses. As well, you will learn the history of soap and soap-making and the chemical explanation of emulsions, which is a fancy name for soap and detergents. The biology of the skin will be investigated in order to determine whether those ‘wonder’ cosmetics will really reverse the



ageing process.

Consumer awareness will also form an important component of the course and you will be required to investigate a beauty product of your choice in terms of quality, cost and the impact of advertising on its desirability and usefulness.

HUMAN POWERED VEHICLE - ENERGY BREAKTHROUGH

The community competition allows schools to showcase their human powered vehicle and demonstrate how many laps can be done around the given track in 24 hours. Schools need to demonstrate their knowledge of sustainability and fitness in this competition.

If you have an interest in energy and group competition and want to be physically fit this unit might be for you! You need to be able to use your imagination and be creative while having fun! Working in groups we learn about energy, problem solving; design concepts; letter writing; taking photos; cooking in the great outdoor; camping; sewing; human powered bike riding and fitness.



Note that a four day camp is a compulsory part of this project.

SINGSTAR



So you like to sing? In SingStar you can learn vocal techniques, share favourite songs, learn recording techniques and record a CD. You can also take your talents out into the community to share. Bring your iPod, your vocal chords and an enthusiasm for music!



using Adobe Illustrator

Are you CREATIVE & love DESIGN? Do you want to learn new & empowering design & computer skills? Well this could be just the Project for YOU!

You will work like a real Graphic Designer using the 'Design Process'. You will learn to manipulate & create your own 'Typeface' using the professional industry software program Adobe Illustrator that allows a Graphic Designer the freedom to create original, dynamic & fun type & imagery.

You will finally apply this 'Typeface' to a range of items such as T-Shirts,

Gift Cards, Badges, Packaging... or what ever is chosen by the class.



SPAGHETTI MACHINES

- Students will need to design and build a “Rube Goldberg” machine.
- There will be a limited space permitted for its construction.
- What eventual function it needs to perform will alter between terms. Eg one term it has to put toothpaste on a toothbrush, another term, pour a cup of tea.
- It will consist of six steps.
- There will be a time limit for the length of the series of events.
- Use of recyclable material will be encouraged.
- Students will keep a technical diary and audio. And a video of the final run.
- The students can build in a group of four or less.
- 3D printer is available for any equipment they design.
- A limit of purchased material will be limited to \$50? per group.
- The students that build the best design each year can have the choice whether they want to enter the Melbourne University Spaghetti machine challenge the following year (Yr 10)



HOLLYWOOD HERE I COME

CHARACTER DESIGN

FOR
Animation

Do you dream of working for PIXAR, DISNEY, NICKELODEON or one of the famous animation companies & working in Hollywood? Do you love fantasy & have stories & characters dancing in your head?

Well this could be just the Project for YOU.

Learn how to design and create characters before you make an animation.

You will work like a real designer in 'ANIMATION'. You will develop a story & use the 'Design Process' to create your own characters. You will learn the professional industry software programs Adobe Illustrator & Photoshop to produce high quality professional characters that could be the basis for further work in Animation or a promotional movie poster.



The Physics of Superheroes and Villains

Ever wondered if Spiderman's web could actually support his weight and if so what size would this web be? Could Superman's X-ray vision actually work without ionizing his own eyes? If Magneto could actually stop bullets then why isn't he stuck to every fridge on the planet?

In this project, learn and reasons why so biggest names comics and also top scientists, and consider which break the laws which ones are



you will discover the many of the from today's movies are be able to super-powers of Physics, and possible.

HIGH SCHOOL MUSICAL

It's time to let your imagination run wild while you write the script, compose the music, rehearse and then perform your very own high school musical. Which wacky characters will you create? Where on earth (or in outer space) will your musical take place? What dire plot twists will occur?

Open to all budding scriptwriters, performers, costume designers, musicians and generally creative types, this project is designed to let you take control of the creative process and perform a totally original musical, all within one term. Start plotting!



WOMEN DO ANIMATE

Do Women animate?

Women DO animate.

Why do women animate?

Because things that don't move are boring.

If you have a pathological need to touch things because you are bothered by the fact that it is not moving, this is for you.

If you enjoy moving something a tiny fraction, take a picture of it and then moving it again another tiny fraction, take a picture and doing this over and over again, minutes after minutes, hours after hours, days after days and think it's fun, this is for you.

So why DO women animate?



Because it's fun.

WIZARD'S APPRENTICE CHESS

“Chess is everything: art, science and sport” - Grandmaster Anatoly Karpov

“There are no takebacks. Just as in life, you must think before you move.” - Grandmaster Susan Polgar

“You will never win if you never start.” - chess proverb

Cultivate your strategic intelligence; your algorithmic, logical and creative thinking. It also improves problem solving and reasoning skills. The competitive nature of chess, foster the attitude that hard work and focused studies leads to success. Whether you're a novice or a Master - **PLAY CHESS.**

Novices (10 wks)

Week 1-6 Learn to play

Week 6-9 Basic strategies

Week 9-10 - Class competition



WIZARD'S CHESS

“Move in Silence; only speak when it’s time to say “Checkmate”.

“When you see a good move look for a better one”.

“True love is like playing chess; a boy always afraid of losing his Queen; a girl risking everything to protect her King”.

Cultivate your strategic intelligence; your algorithmic, logical and creative thinking. It also improves problem solving and reasoning skills. The competitive nature of chess, foster the attitude that hard work and focused studies leads to success. Whether you’re a novice or a Master - PLAY CHESS.

Accomplished (10 wks)

Week 1-3 Openings

Week 3-6 Mid-game

Week 6-9 Endgame

Week 9-10 Class Competition (final match will be exhibited, winner gets a trophy and eternal glory)

If possible, enter inter-school competitions.

