# c h o o () Ч С Г L D σ 0



showcase

issue four term two week ten twenty twenty one

## content

	showcasing	02
	Safe on Social	08
	OHS 50th anniversary	11
abowoooing wordo	Spelling Bee championship	12
Science faculty	LiteracyPlanet	12
<b>showcasing images</b> Science faculty	upcoming events	13

# showcasing science

The science faculty at Orara High School consists of seven science teachers working as a team to support students' learning in the multifaceted sciences. We aim to deliver quality units of work that help students explore our world and beyond.

#### Year 7 come face-toface with snakes

This year Year 7 have had a few exciting adventures in science!

Firstly students were visited by Bob from <u>Snake Tails</u>.

This program was part of the Classification unit in Science.

The program gives students an insight into our Australian reptiles through a safe, interactive and fun performance.



It also creates a greater understanding of the environment today.

Year 7 had a wonderful time

learning about this important animals and getting up close and personal with a range of reptiles brought in Bob.









Year 7 have also been introduced to many working scientific skills to help them in their science subjects for years to come.

#### Year 8

Earlier this term, Year 8 students completed a module called "Famous Scientists".

As part of this module, all Year 8 students were required to undertake a Student Research Project (SRP).

In this assessment task, they were required to design an experiment to solve a problem of their choice.

Possible problems to

investigate included:

- Does the temperature of water affect how quickly salt dissolves in water?
- What substances can prevent apple slices from turning brown?
- Which removes stains more effectively, soap or detergent?
- Which brand of battery lasts the longest?
- Does fertiliser make plants grow taller?

Students were given

planning, preparation and research time in class with the practical component of the task to be completed at home.

A final report including all aspects of the Scientific Method, including analysis of results, was submitted earlier this term.

Some outstanding SRP final reports, gaining marks over 90%, were produced by Sofia Broad, Unity O'Shaughnessy, Georgia Silvy and Tegan Slatte

### Year 8 going green for the environment

Orara High School has an awesome bunch of Year 8 students we call the "Green Leaders".

They are Harmonie Johnson, Samantha Sheridan, Mila Hewitt, Montana Loader, Emily Anderson, Pheobe Woodlock, Savannah-May Winchester, Emily Addison and Kyah McCoy.





These students are motivated towards protecting our environment and working towards sustainability in our school.

They do recycling projects, manage our Bush Tucker garden and encourage staff and students to think and act sustainably.

At the start of June, nine "Green Leaders" worked outside the school for four days with the local "Oz Green" program to conduct a full day of water quality testing of the local waterways.

They then spent the next three days collating and graphing the data to construct a strategic plan for the local environment.

On the final day, they presented their plans to local government councillors, and other sustainability related people.

Their presentation was very

professional and showed the Coffs community that our future is in good hands in terms of local sustainability.

#### Year 9

Year 9 have appreciated a productive semester 1.

They are now primed to assist the Australian Border Force in explaining the issues that introduced species could cause to our native ecosystems.

Should any parent need assistance in building a home extension, our Year 9 could now use their knowledge of levers to explain which tools may be best to use in different situations.

Having completed work



focusing on natural disasters, our students can now identify the cause of a tsunami if it were to impact upon the Coffs Coast and provide safety guidance to the community.

Alternatively, should our bananas be hit with a disastrous cyclone, never fear; they could explain its cause and effects!

#### Year 10

Year 10 have been studying how Science is important in society and conducting their own investigations as part of their Student Research Projects.

They investigated a range of topics and strived to answer many important questions. Some of these questions were:

- What makes fresh flowers last longer?
- Do shoes make you run faster?
- Does temperature affect how high tennis balls bounce?
- Is premium petrol better value for money?
- Does colour affect the flavour of jelly beans?

They have then continued their studies in chemistry by conducting tests to



investigate the reactivity of metals, studying trends in the periodic table and building their understanding about how and why different reactions occur.

#### **Stage 6 physics**

Year 11 Physics students have completed their depth study in term 1.

Students were actively involved in investigating Hooke's Law as part of their practical examination.

Year 12 Physics students have been involved with their depth study on Malus' Law for the polarisation of light.

#### Stage 6 chemistry

Chemistry students in Year 12 have been heavily involved with their depth study into pure alcohol.

Students had to ferment their own alcohol and distil the product.

The product was tested to see if it could be used as a fuel source.

Photographs show chemistry students distilling their ferment as well as creating an ester which can be a very smelly experiment.

Year 11 Chemistry students have also been actively involved with the depth



study into gas laws. They have undertaken practical activities where they have investigated Boyle's Law and Charles' Law.

Outstanding depth studies were submitted by Chloe Addison, Jakob Fisher and Morgan Smith.



### Years 9 and 11 marine studies

So far in Marine Studies this Semester, Year 9 and 11 students have been developing their skills in first aid, aquarium maintenance, snorkelling, identification of ocean hazards, and the organisms found in our local ecosystems.

This term Year 9 have been learning about Dangerous Marine Creatures, focusing on sharks.

Year 11 have been conducting an in-depth local ecosystem study on the Coffs Creek.





### OHS' aquaculture project

The water flows for the Orara aquaculture project.

Filtration and aeration systems are installed; however, the site is still being secured for safety before operations can begin with a test culture of stock.

It is anticipated that over the school holiday break, the refurbishment of the facility perimeter will be completed along with the installation of the machinery and chook shed for the ongoing use of Agriculture students.

#### Agriculture

It has been a busy semester 1 preparing garden beds and planting for Stage 5 Agriculture classes.

This tied in well with stage 5 assessment tasks, as Year 10 focused on creating television and newspaper advertisements for vegetables and Year 9 are currently working on the marketing and packaging of the vegetables they are growing at the school's agriculture plot.

Year 11 were able to conduct a farm case study in term 1 and are now focusing on conducting a plant trial to ascertain the best lighting conditions for snow pea growth.

They are also working towards developing a herb garden for Food Technology to be able to use in the kitchen.

Year 12 have focused on animal production in term 1, focusing on digestive systems, nutrition and feed conversion ratios.

Students are now examining the dairy industry in term 2,



examining strategies that farmers can put forward to increase profit margins.

As part of this focus students have enjoyed a case study that examines cheeses as a value adding strategy that farmers can use to increase profits, as well as marketing strategies to increase sales through products such as chocolate milk.

Both of these case studies included rigorous taste testing to ensure that products were meeting market specifications.





Each fortnight, we will bring you current online safety news from <u>Safe on Social</u>, an organisation that works tirelessly to provide in-depth online safety education.

We hope that you'll find this information helpful in supporting your child or children to use online platforms, like Snapchat and Instagram, appropriately, effectively and ethically.

### How to reverse image search

This concept can be summarised as search engine technology that takes an image that appears online or in documents you have received, and solves gueries about its origin.

Results are produced that relate to revealing where the image has come from, its original accreditation, veracity and in provides further information about the image, and samples of similar images. Some of the most common reasons for using this option include:

- Locating the source information of an image
   i.e. the particular website.
- Searching for duplicated content
- Ensuring compliance with copyright legislation
- Finding out further information
- Determining if an image is genuine or has been faked
- To locate a higher quality version of the image

There are multiple methods, for conducting such a search.

Some are relatively simple and focus on specific search engines, other include apps that search ALL the search engines, forums and social media platforms.

They produce extremely detailed results.

Which you choose depends entirely on your primary

need.

Methods can vary between browser searches, and those conducted on phones with both Android and IOS software.

This cheat sheet will break down each of the above, and suggest one or two apps that can be downloaded for more detailed results.

Browsers and desktop computers.

#### Google

This is the simplest of all options.

Visit images.google.com.

Click on the small camera icon, seen on the right – then simply paste the URL of the image you wish to search or upload an image file from your computer.

#### For a URL

To Upload a file from your computer.

The result should include the websites that have used the image, a selection of other sizes for the image, and images that have a similarity with the one searched.

Dragging and dropping a picture into the reverse search engine.

This will require use of either Chrome or Firefox as your browser.

- Open as a browser either Chrome or Firefox.
- Go to Google Images
- Find the picture/file on your computer you wish to reverse image search
- Click on the picture/file

- Hold down the mouse and drag the picture to the search box.
- Drop the image

Note – Images that have been reverse searched are only able to be stored by Google for a period of seven days.

They will not appear as part of your search history.

Google states it will only use them during that sevenday period to make their products and services more effective.

#### Android

There are several different methods of performing a reverse search on an Android device.

Google's Chrome browser. To do this for an image



Paste image	URL Upload an image 📓	

found online.

- Open Chrome and locate the image you wish to search for
- Tap and hold on the image once located
- When a number of options shows – choose the Search google for this image link.

When the image is stored on your device

- Go to ctrlq.org/google/ images
- Choose the upload picture options
- Select 'Files" provided from your computer
- Choose an image from your photo gallery
- When this is uploaded select Show Matches

#### For an iOS device/iPhone

This is dependent on which browser you predominantly use on your device.

Given that Safari is the default browser for iOS and does not provide options that Google does, you will need to separately go to Google Images to search.

- Go to images/google. com
- Select the share button from the bottom of the screen

- Scroll to the left to find the available option. The Request Desktop Site will show.
- Select the Request desktop site to load the webpage

Now, you are in familiar Google image territory, and should select the camera option and follow the steps outlined previously.

If you do not wish to save an image to your device, an alternate method is via installing the google Chrome app to your phones.

This can be chosen from the App store, and downloaded for free.

Once downloaded, tapping and holding an image will offer identical options shown as above.

Selecting 'Search Google or this image" will allow you to start a reverse image search.

### Separate app options to consider

*TinEye* - very simple to use. Depending on the device you are using the search results will vary, but you are able to search images taken with your phone, select images from your photo gallery and browse for additional locations.

*Reversee* – is available free from the app store. This is an expansive search tool that used multiple search engines to collate comparisons in a very fast time.

This app has the additional feature of becoming an option through the share feature on a Safari browser – which will collect all images on a particular webpage and then select any of the images to search on google

*ImgOps* – covers reverse images searches, and offers an array of tools more specialised than those seen on google.

Metadata, editing, and a wide range of search engines are on offer.

Search by image – an app for Android users available on the app store

All these apps and methods are very simple and involve a basic step by step process, that should allow you to track down any image you need.

Choose the method of searching that best suits your requirements, and devices.



### Request for Orara High School memorabilia

Do you have any old photographs, year books, school uniforms, report cards, woodwork projects, drama scripts or any other good old memories of Orara High School locked away in a dusty draw?

If so, would you be willing to loan your item to help celebrate and look back at Orara over the past 50

#### years?

Please call into the school office to provide your item as soon as possible so we can start to gather up all items in readiness for the week of celebrations starting Saturday, 24 July 2021 with an open day.

Please contact Christie Brady on (02) 6652 1077 if you have any questions.

• • •



#### Years 7 and 8 Spelling Bee term 3, week 3

During Education Week (term 3, week 3), Orara High School will host its inaugural Spelling Bee for Year 7 and Year 8.

#### Why is spelling important?

Spelling is important for three reasons:

- Communication: Spelling is a critical component of communication
- Literacy: Spelling and reading skills are closely related and help develop overall literacy
- Employment: Spelling quality has a direct impact on employment opportunities

Research has found that spelling, reading, writing and comprehension skills are all closely linked.

A research study conducted by L.C. Ehri for the Scientific Study of Reading found that spelling instruction improves reading ability, as it builds a learner's knowledge of the alphabetic system as it is used in reading.

From now until the grand final, students will be practising 'Look, Cover, Write, Check' in their



classes.

### How can I help my child at home?

Students received the list of spelling words and a practice booklet for home and school. Students have been practising in class doing 'Look, Cover, Write, Check'.

You can help your child practise by encouraging them to do 'Look, Cover, Write, Check' in their spelling practice booklets. Look, Cover, Write, Check is a strategy used to help children learn their spellings.

To help your child, get them to follow these steps:

- *look* at the spelling word and commit the spelling to memory
- cover the word over with a piece of paper or their hand
- write the spelling word in the space given in the practice booklet
- uncover the spelling word to *check* if they have got it right.

# What spelling strategies can I teach my child at home?

In a thought-provoking study to investigate the five main spelling strategies used automatically by students:

- Visualising the word: remembering the appearance and shape of words; picturing the word in the mind
- Making connections: for example, drawing on knowledge of word families; recognising syllables.
- Sounding out the word; identifying the beginning sound of the word and then the rest of the word; using syllables.
- Reflecting: verifying the spelling of the

word by checking, use of dictionary, list, or computer spell-checker

• Combining and applying several of the above strategies.

On the school website <u>Spelling Bee page</u>, we have provided a downloadable copy of the Spelling Bee booklet, which includes 'Look, Cover, Write, Check' pages so that you can support your child can practise at home.

Each Year 7 and 8 class will complete a spelling test at the beginning of term 3, week 2.

All students who achieve 100% will then move to the Spelling Bee knock out grand final held in term 3, week 3.

#### LiteracyPlanet

Students can also access the spelling words on LiteracyPlanet.

LiteracyPlanet is an English

literacy platform that comprehensively supports students' learning through gamified activities and tasks.

It covers all strand of literacy:

- phonics
- sight words
- spelling
- reading
- grammar & punctuation
- comprehension

Students can access LiteracyPlanet at home by going to the website (<u>https://app.literacyplanet.com/</u> <u>login</u>) with their schoolassigned login in and password.

If your child has forgotten or lost their login and password, please contact the school so that we can give you those details.

We encourage you to explore the site with your child so that you have a greater understanding of how it works and can encourage your child to complete the games and tasks that will help boost their literacy.



### Upcoming events

Term 2, week 10	Term 3, week 1
Jun 21 • Combined NAIDOC Week & Refugee Week assembly • Clontarf community presentation	Jul 12 • School development day (staff only)
Jun 22	Jul 13
<ul> <li>Work Studies Park Beach Plaza Study</li> <li>MNC Dance Festival and Dress Rehearsal</li> <li>NAIDOC Week guest presentations to students</li> </ul>	• First day of term 3 for Years 7 - 12 students
Jun 23 • UNE excursion • MNC athletics carnival • NAIDOC guest presentations • NAIDOC AFL/NRL clinics • MNC Dance Festival and Dress Rehearsal • NAIDOC working groups • AFL staff v students	Jul 14
Jun 24	Jul 15
<ul> <li>Girls' tackle gala</li> <li>MNC Dance Festival and Dress Rehearsal</li> </ul>	<ul> <li>NSW all schools cross country</li> <li>Mathematics Standard online HSC study day</li> <li>Legal Studies mock trial</li> </ul>
Jun 25	Jul 16
• Final day of term 2	• NSW all schools cross country