



School of Isolated and Distance Education (SIDE)

INSIDE VIEWS



■ From the Principal

As the school year draws to a close, it is a time to reflect on the continued growth of the school and constant striving to provide the best education for students working in SIDE's unusual contexts, and look towards an exciting 2017.

2017 projects

The school has been selected to join a series of significant projects next year:

- **Languages Resource Development.** With the introduction of compulsory Languages for all students to Year 8 starting with Year 3 in 2018, SIDE has been chosen by the Department of Education to develop teaching and learning resources for all teachers across the system. This builds on the work of SIDE as a Teacher Development School and Key Language Leader School combined with the experience of many years of delivery of the excellent Primary Languages Program to regional schools.
- **Pilbara Education Partnership.** Under a partnership between BHP Billiton Iron Ore and the Department of Education, SIDE will work with schools in the Pilbara to enhance the delivery of both ATAR subjects and academic extension programs for students in Years 4–6.

- **High Definition Video Project.** Increased bandwidth to the locations of many SIDE students means that the use of HD video is becoming a possibility. SIDE will be involved in a pilot project next year to determine if the promised improvements in the network are realised and then, more importantly, how this can be used to improve teaching and learning. The Primary Languages program and Pilbara Education Partnership projects will be the initial focus of this work. Video conferencing equipment will be installed over the Christmas break ready for 2017.
- **Murdoch University's Women in STEM and Entrepreneurship Project.** This will involve webinars with diverse inspiring and high-achieving women with STEM (Science, Technology, Engineering, Mathematics) qualifications. The project aims to demystify the career prospects for STEM graduates and emphasise to parents and teachers that STEM subjects empower girls with the knowledge and skills for problem solving and a way of thinking that will serve them well in any future career.
- The partnership with Scitech will also strengthen next year with a continuation of the popular Scitech shows delivered face-to-face and online, the co-development of engaging science resources using the SIDE Multimedia Studio and professional learning for teachers introducing the new STEM program.

The Senior Leadership Team held a planning day on Wednesday 16 November. The day determined the whole

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school priorities for 2017 and began the preliminary work for the development of the next strategic plan. In response to feedback from parents and supervisors in schools, one of the goals for next year is to improve the online communication with parents and supervisors. To start this work, a survey will be published in Term 1 to hear from our community the types of information they require, and how it should be presented.

Staff news

The following permanent staff are retiring at the end of this year, and I acknowledge their significant contribution to WA students over many years.

- Angela Quinn
- Helen Willison
- Linley Wolyniec

Kylie Bradford, Program Coordinator Student Services and VET, is leaving the school to pursue new opportunities.

Jan Fallows has been successful in winning the Manager Corporate Services position at Perth Modern School. Lee Masters will also move up to the Manager Corporate Services role at Carine Senior High School.

Temporary departures

Lindy Precious has won a position at Ashdale Secondary College for 2017 and we wish her well with her new adventure.

Appointments

I am pleased to announce the following appointments for 2017.

Permanent appointments to SIDE

- Susan Taylor – Learning Support
- Susan Cullen – English
- Anne Paull – Mathematics
- Amy Rosato – Resource Centre
- Kirsty O'Halloran – Health and Physical Education
- Shaun Redding – Health and Physical Education

Fixed-term appointments for 2017

- Simon Bourke – HaSS
- Amanda Malseed – English
- Kathy Shortland-Jones – English
- Rose Lee – HaSS

- Patti Morgan – HaSS
- Tracy Sterling – HaSS
- Jane Bourke – Learning Support
- Mary Chong – Learning Support
- Donella Grieco – Learning Support
- Robin Williams – Learning Support
- Amy Hamilton – Learning Support
- Ian Wallace – Science
- Natalie Cooper – Science
- Anne Serafini – Student Services/Careers
- Denise Scott – Languages
- Yong Mui – Languages

School name

Until 2012, SIDE comprised a number of different schools including the five Schools of the Air, hence the current name – Schools of Isolated and Distance Education. Restructures and amalgamations have changed this resulting in SIDE now being one school. To reflect this, the school name will be amended from the start of 2017, changing from Schools of Isolated and Distance Education to School of Isolated and Distance Education. The new name will appear on the school's digital platforms for 2017 and on printed materials as current stocks are replaced.

Celebration of Student Achievement

Student award winners have been published on the SIDE website. Certificates and prizes have been posted out. Congratulations to all our award winners for their achievement and effort over 2016.

Principal position

Mr Noel Chamberlain returns as Principal next year.

Season's Greetings

As Term 4 concludes, I would like to wish our school community all the best for the summer break. I hope you all have a safe, restful and enjoyable time and I look forward to working with you all again next year.

Jonathan Bromage

Principal

Humanities and Social Sciences

2016 Graduation Speech by Jarrad, Derby District High School

Jarrad's speech to the graduating class of 2016 at Derby District High School illustrates the importance of studying Modern History. Jarrad was enrolled as a SIDE student in the Year 12 ATAR course.

Jarrad, right



"This year I have studied Modern History. What I have learnt from my tests and exams and sometimes treacherous studies is that when we look back at history, no one got anywhere by being lazy. They got to where they wanted to be by sustaining levels of diligence, courage and strength, which is what our school has strived for.

...and you may think that reaching your goal may not influence the ones around you. As Michelle Obama said, "You may not always have a comfortable life and you will not always be able to solve all of the world's problems at once, but don't ever underestimate the importance you can have because history has shown us that courage can be contagious and hope can take on a life of its own."

We wish Jarrad and all Year 12 SIDE HaSS students every success with their future endeavours.

History Teachers' Association of WA (HTAWA) Year 11 Student Seminar

Two enthusiastic and dedicated Year 11 Modern History students from SIDE met with other students at the University of Western Australia (UWA) on Saturday 22 October for the HTAWA student revision seminar. Both Jamiee, from Bunbury, and Vinciane, from Perth, found the morning extremely useful. They also enjoyed the spectacular spring beauty of the university gardens.



Jamiee (front) and Vinciane (directly behind Jamiee) at UWA.

Nazi Germany Repression Game

Year 11 Modern History students are encouraged to complete a Moodle quiz based on life under the Nazi regime. Students are presented with various scenarios and are asked to respond by selecting the best option in a series of multiple-choice questions. They are provided with feedback on the impact of their choices. Nancy, from Carnarvon Senior High School, wrote the following response:

"I think that the game was a really thought-provoking experience and really reveals character. It really forced me to ask myself: What would I do? And with that, I really struggled.

"During the game, I found myself going to options that I felt were the most humanitarian and best supported pacifism and the 'right thing'. Were my answers realistic or unrealistic? I'm not too sure. I mostly just gave in to my gut feeling, which I feel is the most reliable.

"Looking at my results, a majority of the choices I picked would have gotten me in trouble with the Nazi authorities seen as radical or dangerous... so I guess I would not have survived very long in Nazi German society."

Ros Keron – History Teacher

Year 8 Medieval siege engines

The challenge

In Term 4, the Year 8 students were challenged with creating their own medieval siege engines. They embraced the challenge with vengeance! These engines are devices that are designed to break or circumvent (get under, through, or over) castle walls and other fortifications in siege warfare.

Students decided which type of siege engine they would create out of trebuchets, catapults, ballistas, rams or siege towers, and decided what materials to use. Videos of their creations were uploaded to Moodle with explanations of the designing process.



Grace

Tyler and Chloe

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Jasmine



Izzy and Jade

The responses

The different challenges the students faced in making these working siege engines made for very interesting and entertaining reading and viewing.

Simon Bourke, Year 8 HaSS teacher, summed up the project, "The enthusiasm and extent of the submissions blew us away. It was great to see the students working either independently or in teams to produce some really fantastic work. One student,



Dylan

Dylan from Fitzroy Crossing, used two cameras in his video of a drone-mounted battering ram. Of course he was aware that drones were not invented during the medieval period; however, he was responding to a Moodle comment that the only thing we had not seen was a high-tech-medieval, drone-mounted siege engine!"

Simon Bourke – HaSS Teacher

Languages

Learn a language and open the door to a better world...

Buongiorno! Konnichiwa!

Selamat Datang! Bonjour!



As the 2016 academic year comes to an end, we extend a heartfelt thank you to all our supervisors for your dedicated work in assisting with the languages program, and to our students, from Kindergarten to Year 12, for your enthusiasm during classes this year. The language teachers at SIDE have enjoyed teaching and sharing their knowledge with you all.

Students have been busy preparing for and completing their final exams and assessments this term. We would particularly like to acknowledge those students who have continued their language studies through to Year 12. Learning a language to this level equips students with valuable linguistic and intercultural skills and understandings that will be of vast benefit in their future lives. We wish all our leaving students success in their future endeavours.

As we look to the summer holidays ahead, we are excited to hear that many of our students will be travelling overseas and will have the opportunity to apply the languages they have learnt this year in authentic situations. We know of students visiting France, Italy, Japan and Indonesia and we hope you have a fabulous time using your language and deepening your understanding of the culture.

In this newsletter we would like to showcase some of our recent school visits as well as an exchange to Japan by one of our Year 11 students.

French: School visit to Northcliffe, Munglinup and Salmon Gums

This term, two members of the French team went on an adventure down south. Their first stop was Northcliffe. It was the first school visit for Arielle Fernandes and Dorian Mouezy. The students were very excited to see them and they enjoyed some food from France and Switzerland. Because French is not only about France, the students also learnt about La

Francophonie (the French speaking community), and designed flags from francophone countries.



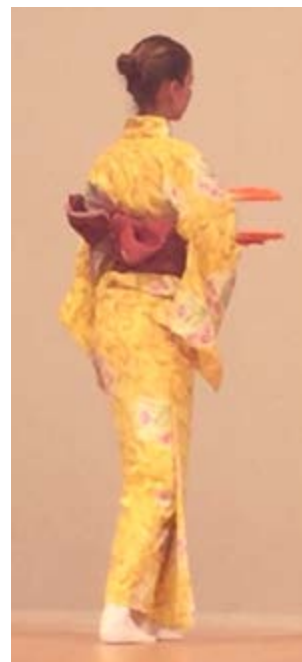
Three weeks after their first visit, Mrs Fernandes and Dorian flew to Esperance and drove to Munglinup PS and Salmon Gums PS to meet 35 students. The visits were an opportunity to share experiences with the students and to engage in hands-on activities. In order to reinforce their knowledge of colours, face parts and the rules regarding the agreement of the adjective, the students designed masks based on a story they previously read in French. These school visits were a moving and unforgettable experience for both the students and the teachers.



SIDE student Molly visits Japan

Extract from a letter from Molly: "I have been attending school in Japan for 5 months now. At my school I am a part of a traditional Japanese culture club which includes Japanese dance (日本舞踊) and playing the koto (a traditional Japanese string instrument ~ 箏). At school I have also made many friends.

Some of the most enjoyable things I've done so far are: exploring all over Tokyo by myself (the train system is a breeze now), taking lots and lots of purikuras (photo strips) with my friends, seeing the cherry blossoms (桜), going to many, many temples and collecting temple stamps in a special book which many people here do, eating a LOT of awesome Japanese food (sushi, onigiri, noodles, random convenience store snacks!)



My Japanese is going well, I can communicate with people and understand a fair bit of what people are saying. It was very helpful to know some basic Japanese upon arrival which I learnt via SIDE. I have just got to think; "ganbatte-- 頑張る -- as everyone says here. It means like "Try your hardest". But nothing compares to immersing your entire life in the language, so with a bit of 頑張って you will learn it eventually, just like I am now. I am picking up new words every day without even knowing it! I highly recommend it to anyone who really wants to learn Japanese and all about Japanese culture!"

Molly

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Italian news

This term in Italian the Year 5/6 students will be completing the topic *Il Nostro Mondo* (Our World). We have studied the continents, oceans, nationalities and country names. This topic went well with our inclusion of the Olympics topic in Term 3. Students practised how to introduce themselves, say where they live (country), say their nationality and state the language they speak. They will also be starting the topic “My holiday in Italy”. The Year 3 and 4 students have been continuing the ‘Animali’ booklet; they have learnt how to describe animals and have learnt songs about them.

The Italian Student Booklets contain a list of NAPLAN links, Italian/English vocabulary page, outcomes for the topic, student assessments and a completion certificate for each student.

Indonesian news

We have had numerous school visits this term and are busily preparing for 2017.

We are sad to say goodbye to our Indonesian Language Assistant, Syahrial, who has been a wonderful support for our teachers. Syahrial has joined us on our excursions and, apart from speaking in Indonesian with our students, has introduced our students to many aspects of Indonesian culture including traditional dances! We wish him all the best for 2017!



From all of the staff in the languages department we wish everyone a safe and happy holiday and look forward to an exciting 2017!

Library



I am sure you already know that borrowing of Library resources has stopped for this year.

Please make an effort to return all your loans by the end of the school year. If you have any questions or problems about this issue, please contact us at library@side.wa.edu.au.

Year 11 and 12 students are asked to make sure they return their loans to SIDE and not to their Supervisors at their school. Again, please contact us if you have any questions.

E-books

Even though borrowing of “real” books has stopped, you can still borrow e-books through the [SIDE catalogue](#).



You will need to log in before you borrow an e-book, using your Saba/portal username and password.

As this will be my last ever newsletter article, I would like to wish you all the very best in your future endeavours, and keep reading!!!

Please feel free to contact us if you need any help or have any questions.

Call us on 08 9242 6303 or

Email us library@side.wa.edu.au

Helen Willison, Felicia Harris and Elizabeth Allen

English

Celebrating a dynamic year in English!



From left: Vicki Masters, Rachael Macfarlane, Peter Barker, Linley Taylor (HOLA), Narelle Carlon, Kathy Shortland-Jones, Cathy Lamers, Pippa Tandy, Susan Cullen, Jennifer Crowe. (Not pictured: Amanda Malseed)

As a result of the dedication, collaboration and commitment of the SIDE English team we are now delivering the Western Australian Curriculum online in Years 7, 8, 9, 10, 11 and 12. We have enjoyed an immensely successful year and the roll out of new Year 12 courses was a special feature of this.

As is often the case with year-ends, the English Department will be farewelling two staff this year. Angela Quinn is retiring and Pippa Tandy will be moving interstate.

Angela has been a teacher at SIDE for 21 years and will be missed by staff and students alike. Angela has worked tirelessly in the English department to offer students vibrant and engaging curriculum.

Pippa has been with SIDE for three years and has been a key figure in the roll out of our new Literature courses. Her wealth of knowledge and expertise has been appreciated and we will all very much miss her in 2017. Pippa is moving to Victoria to enjoy a cooler climate!

We wish both Angela and Pippa a happy and fulfilling future.



Authors Online author James Moloney with English teacher Jenny Crowe

James Moloney

James Moloney, author of books such as *The Scorpion's Tail*, *Gracey*, *Disappearing Act* and *A Bridge to Wiseman's Cove*, was SIDE's featured 'Author Online' in Term 4. James presented sessions across upper primary through to Year 12. One of Jenny Crowe's Year 10 English students – another James – was lucky enough to enjoy the benefit of feedback on his own writing from the author, which we've shared with you below.

James's darkly-humorous short story was featured in the Term 3 newsletter and James Moloney was impressed with the writing. Read on to see the feedback given.



James in the SIDE Library

"This is a very good short story and shows real talent for someone still of high school age. The light-hearted approach to such a serious topic is refreshing and reflects the maturity of the story telling. The reader quietly smiles at Redford all the way through. We see him as naïve and out of his depth from the beginning, such as when he acquires the fake ID and then acts childishly in what he says, and in the embarrassing attempt to do a fist bump.

"The pace is excellent. If too much time had been spent describing his radicalisation and the journey to Syria the momentum would have been lost. There is also some depth of understanding here, too. Redford is shown to be simply a misguided teenager looking for adventure and respect from a world that doesn't pay him much attention. The introduction of a second fighter prompts an element of mystery – is this person a spy for the government, a recruiter for ISIS or, as he turns out to be, just another victim of ruthless and evil people? The ending seems dire and brutally sudden but such stark honesty is necessary to draw the story from the light-hearted to the serious at the final moment.

"There is some fine language in the first few lines and some laugh out loud quips, eg 'Red used his awesome powers of observation to figure that one out.' And the earlier line about Redford's fists being lethal weapons, which they clearly are not.

"Recently I judged a short story competition in a regional city of Queensland. This story would easily have won the Schools Section. I was also Writer in Residence at Brisbane Grammar

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School's Writers Camp. None of the stories written during the camp was as well done as this one. Congratulations, James, and I hope you'll keep writing for your own satisfaction and so others can enjoy what you create."

James Moloney – November 2016

Patrick Cullen

On Thursday 27 October at 8.30 in the morning Year 10 English students were taken into the world of the actor, the monologue and the stage. Under the bright lights of the studio, guest lecturer and actor Patrick Cullen workshopped the construction of character and the development of narrative.



Workshopping Shakespeare with Patrick Cullen

Students were encouraged to perform short dramatic pieces. A similar lesson was repeated online for students overseas. Participants wrote drafts for monologues and read Shakespeare together. Patrick encouraged students in developing creative ideas for their Year 10 English task.

Red Room Poetry Competition



From the boom of a ball hitting racket strings to a silent phone and the sadness of distance, students invited into the Red Room of poetry wrote about objects of key importance to them in the 2016 'Poetry Object' competition. All students who participated received certificates for their creative work.

The Red Room poetry workshops

provide an opportunity for students to explore and create outside the limitations of marks, grades and results. The English department congratulates the poets and we thank them for their contributions.



WordFlyers

WordFlyers is an online literacy program enjoyed by a range of students at SIDE. The program was initially rolled out to Year 7s at the beginning of the year and had been offered to other students in Years 8, 9, 10 and 11. Students engage with a range

of appealing and relevant texts and are able to practise skills related to language conventions, reading and writing. Teachers

are able to tailor the program to meet individual student needs. This program has been so successful it will be implemented for all students across Years 7–10 in 2017.

Jarrold – Year 12

SIDE English staff congratulate General English 12 student Jarrod, from Laverton School, on the successful completion of his final year program of study. Jarrod's teachers gathered in the studio to film their congratulations. The film was then played at the final assembly at Laverton School. Jarrod is going on to an apprenticeship as a mechanic. We commend Jarrod on his efforts and wish him all the best in his future career.



Jarrold's teachers wish him success: Dylan Reid (Career and Enterprise), Amy Rosato (Student Coordinator), Caroline Bone (Maths) and Susan Cullen (English)

Susan Cullen and Narelle Carlon

Mathematics

Another busy year is drawing to a close and has been witness to more curriculum changes!

The year finished with 12 teachers of Mathematics representing a teaching load equivalent to 8.6 full-time teachers. There was a decrease in student enrolments.

Lower Secondary

The new Western Australian Curriculum (based on Australian Curriculum) continued across Years 7 to 10.

Common Assessment Tasks are used in each of the lower secondary courses. Tests are designed to provide students with the opportunity to demonstrate their knowledge and understanding at a variety of levels. In Year 10 we have an advanced course which allows top students to study harder content and prepare them for the challenges of Mathematics Specialist and Mathematics Methods in Years 11 and 12.

Mathematics Moodle courses have a standard design for Years 7 to 10 so that when you progress to the next year they will have the same "look" and "operation".

SIDE Mathematics is able to cater for students who have special needs. Some schools have recognised that SIDE can provide a specialist service to their talented students. One metropolitan Year 5 student was enrolled in the Year 7 program. Two Year 11 students were enrolled in a Year 12 ATAR course, subject to satisfying conditions set by SCSA (School Curriculum and Standards Authority).

Upper Secondary

This year we introduced the new WACE (West Australian Certificate of Education) courses to Year 12. These are based on Australian Curriculum with some differences in content as directed by SCSA.

We are applying the same idea of a standard design in Moodle for the new WACE courses.

Staffing

Mr Rob Sturgess re-joined the SIDE Maths team in Semester 2 after leaving Como SHS at the end of last year.

Holiday time...

...is a good opportunity to apply your "incidental Maths". Every time you go shopping, handle money and do some cooking, you are applying Mathematics. If you assist with household projects such as building, renovating and gardening, you are applying Mathematics. Think about how you apply Mathematics in your hobbies.

Here are some activities that you could try to keep those neurons firing.

Answers are provided at the end of the section.

Puzzle corner

1. A can containing 20 marbles weighs 80 grams. The same can with 15 marbles weighs 66 grams. What is the weight of the can?



Microsoft clipart



Microsoft clipart

2. Peggy is writing numbers from 1 to 1000. She stops to rest after writing a total of 630 digits. What is the last number she wrote?

3. Sara averaged 12 kilometres an hour riding her bike to the state park against the wind. She averaged 18 kilometres per hour riding home with the wind at her back. If it took her 4 hours to return, how long did it take for the whole trip?



Microsoft clipart

4. The Big Horse Race

Six horses ran in the big race. The jockeys wore shirts of different colours. Can you figure out the order in which the horses finished the race and the colour of the shirt each jockey was wearing?

1. Twinkle Toes won the race.
2. The red shirt came in just behind Slow Burn.
3. The blue shirt was last.
4. The yellow shirt came in third.
5. Slow Burn was slower than the yellow shirt.
6. The jockey on Twinkle Toes and the jockey in the violet shirt are brothers.
7. The orange shirt came in between Maggie's Nag and Flat Foot Floyd.
8. Shufflin's Sam came in before the yellow shirt.
9. The violet shirt beat Maggie's Nag.
10. Flat Foot Floyd has never been beaten by Ramblin' Rose.

Colour	Name	Place
Red		
Yellow		
Orange		
Green		
Blue		
Violet		

Carolyn Bone
HOLA – Mathematics

Solutions:

1. 24 grams
2. 247
3. 10 hours
4. In the interests of encouraging problem solving the answer has been omitted.

Science

The Science team would like to thank all students, supervisors and parents for all their hard work this year. Being organised and maintaining regular contact with teachers helps students succeed in this challenging mode of study. Improvements in technology are also enabling some of the hurdles of distance learning to be overcome.

It is always great to have the opportunity to work with your teacher face-to-face and SIDE offers opportunities for that to happen. SIDE Science teachers visited students in all regions of Western Australia this year as well working with students on site at SIDE during student visits.

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Making it real

In the spirit of enriching the experience of SIDE students, no matter where they are, we have been lucky to develop strong ties with organisations such as Scitech and ESWA to bring



Jo Watkins (ESWA) and Suri Naidoo (HOLA, Science SIDE)

science in action to our students. The IT and OTL staff at SIDE have worked tirelessly with Scitech, ESWA and Suri Naidoo, Science HOLA, to bring regular online events to all.

On Tuesday 25 October 2016, SIDE was fortunate to host an event which involved some exciting Science demos by Jo Watkins who is Chief Executive Officer of Earth Science Western Australia (ESWA).

As part of our regional outreach program, Jo also demonstrated these lab activities to all Lower School science students via a live Saba event, where she explained and demonstrated the formation and features of rocks. This supported the lower school units being taught at the time.

This event was fully interactive for regional/remote students. As Jo did the demos online, students were able to do the same experiment wherever they were located. SIDE supervisors were given prior notice to collect a few consumable items so students could participate in these activities.



Jo Watkins with her rock collection

This event proved so popular that 78 students attended live online in 12 different countries. Many more have viewed the Saba recording since and have been able to complete the activity at a more appropriate time to them.

On 8 November, Science students were treated to another



Emma from Scitech demonstrating burning bubbles

astounding show by Scitech. The show was called “Things that glow”. This time, the Scitech team showcased some of the things students had learnt in the previous Physics and Chemistry topics with a series of amazing demonstrations, such as:

- producing bubbles that burn
- how glowsticks and lasers work
- hydrogen balloon explosion.

The grand finale was a most impressive fire tornado showing flame tests using different chemicals.

Lower School

Some changes took place this year in the Lower School courses. The completely redesigned and constructed courses have now been up and running since the beginning of the year. There have been quite a few changes in format and schedules. One major change has been in the way work is submitted. Taskwork and quizzes are expected to be submitted online according to the work completion calendars. Unfortunately, there is no allowance for late work. Once work is submitted, the student will receive a grade only, and feedback will be available one week after the due date. Information about this will be sent to students by their teachers at the beginning of the year and appears in the Moodle courses.

Senior School

This year the Science Learning Area has completed implementation of the final phase of the new Senior School courses. The six courses on offer have options for students to study at different levels. Information about these courses can be found on the SIDE website and in the Senior Secondary Choices Handbook. All of these courses are available online.

Top Students 2016

We are always very proud of our students' achievements and 2016 is no exception. Students from all over the world have worked hard to achieve their best under what, quite often, are very difficult circumstances. Internet connections can be intermittent, differing time zones make it difficult to attend Saba classes, and just trying to adapt to a different culture often has an impact on students trying to do their best. As we do every year, we publish the names of the top achievers for each year group, wherever they may be... keep an eye on this space – your name might just be there!

Farewell

For those students finishing with SIDE this year we wish you all the best for the future. To returning students, have a great break and we will see you back ready to work hard in 2017.

Online Teaching and Learning



The Admiral gets a medal

In November of this year, American Rear Admiral G Hopper was posthumously awarded the Presidential Medal of Freedom by President Barack Obama for service to country. What's so remarkable about that? Well, Admiral Hopper's first name was Grace, and she was awarded this high honour for her work as a major figure in the development of computers.

In 1949, Hopper developed the revolutionary concept of the compiler, an intermediate program that translates instructions written in English into code that may be understood by the computer. Normally, programmers would have to write programs out in binary code, consisting of long series of zeros and ones. A compiler would allow a programmer to compose code more quickly and easily, without as much room for error, using English commands. Most of us have heard of Alan Turing – they even made a movie about him. Few are aware of Grace Hopper.

Girls and technology

There's a lot of discussion in the media about encouraging girls to engage with what are sometimes termed "traditionally male" subjects. It's a good thing, too, as women are under-represented in subjects such as Digital Technologies and Computer Science.

Stereotypes are rarely based on reality, and that's definitely true in this case. Many of the most important figures in the history of information technology have been women. Unfortunately, they are less well represented in popular histories. Here's just a sample.

Hedy Lamarr

Yes, *that* Hedy Lamarr, the Austrian actress who became a major Hollywood movie star in the 1930s. During WW2, she invented spread-spectrum wireless technology. It makes Wi-Fi, GPS and Bluetooth possible.

She used a piano roll to control the switching of frequencies. This year is the 101st anniversary of her birth.



Image: public domain

Betty Holberton

A key programmer of the first American computer, ENIAC, she developed the first sort-and-merge routines, key components of all modern computer languages.

She was also responsible for developing the numeric keypad – and making computers beige, a standard colour that persisted until the late 90s.

Ada Lovelace

Augusta Ada King-Noel, Countess of Lovelace, is considered the inventor of the most fundamental construct of computer programming: the algorithm.

What's more remarkable, she did it a hundred years before anyone had invented a working computer. She was also the sister of the poet, Lord Byron. (I guess that makes them a family of over-achievers.)



Image: public domain

There are many more examples, and it's clear that the notion of computers as boys' toys is a recent one.

All welcome

At SIDE we encourage young women (and young men) to explore whatever interests them. The modern teenager is generally highly "connected" – they consume vast amounts of online content. The programming and creation of that content is another matter, and encouraging students to take control of technology is why Digital Technologies is central to the new WA Curriculum. At SIDE, we are focused on ensuring these subjects are a gender-free zone.

Ross Manson

Online Teaching and Learning

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The Arts and Technologies

Media Arts

Media Arts at SIDE is going from strength to strength with a new Year 9 course offered in 2017. Looking at the design and production of movie trailers, the course builds on a suite of media forms and contexts, starting with animation in Year 7 and Foley (sound production) in Year 8.

Every year the Media Production and Analysis ATAR courses are growing, with our biggest cohort to date expected next year.

Teachers are preparing by attending a range of professional development opportunities to make sure their knowledge is up to date with current industry trends. We have also purchased some professional standard media equipment with the idea that teachers can work with their students at SIDE or on regional visits.



Rachael MacFarlane at the Channel 9 Newsdesk



Elkia, Year 11 ATAR Visual Arts

Visual Arts

Enrolments for ATAR Visual Arts are already indicating that there will be a large and strong group for 2017 and we are looking forward to a successful year and continuing the SIDE tradition of being invited to exhibit at major student exhibitions in Western Australia.



Christina, Year 11 ATAR Visual Arts



Elkia, Year 11 ATAR Visual Arts

Students who work creatively can think on their feet, approach tasks from new and different perspectives and 'think outside the box'. They can work on problems autonomously to resolve an artwork, sometimes persisting through several ideas and attempts, and they develop confidence in communicating their own ideas. Critical and creative thinking are integral to working in the Arts and a great way to prepare for the world of work.

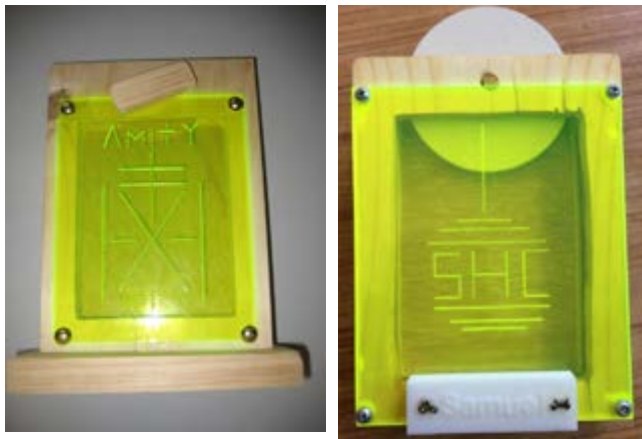


Year 7 students working creatively during their orientation visit

Design & Technology

We have had a great year in Design & Technology with many creatively designed projects coming in.

Year 7 students had to design and make a money box with a laser cut acrylic front panel and a mechanical coin deposit system.



Moneybox, above, was designed and made by Amity

Samuel built a great coin deposit system as well as 3D printing a name plate for his moneybox

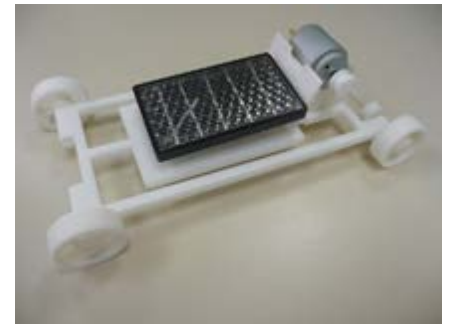


In our new Design & Technology 2 course students had to design a lolly machine that incorporated a laser cut acrylic front panel, a 3D printed part and a lolly delivery system.

Lolly machine design project, left, by Liana.

We have introduced using CAD software to 3D print design project parts into our Electronics courses this year.

The solar powered vehicle, right, was designed by Cody. All vehicle parts were drawn using SketchUp and printed on the SIDE 3D printer.



**** A note to all students and supervisors, can you please return your tool kits back to SIDE as soon as possible.**

Keep up the good work, everybody!

Phil Garnett
Design & Technology



Maraina made the very creatively designed moneybox above

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Health and Physical Education

Why is it important?

The importance and value of health and physical education and physical activity can not be emphasised strongly enough.

“It is the curriculum area that engages students in worthwhile learning experiences to develop skills, knowledge, self-efficacy and dispositions that will enable young people to live healthy and active lifestyles.” (ACHPER, 2014)

At SIDE the HPE learning area tries to support students to make informed decisions about their health and wellbeing. Children learn to be physically literate and health literate in and through HPE.

Students engage in both health and physical activity in a variety of ways.



Evidence of physical activity – Emily hiking at the Peguche Falls, Ecuador

Health Education

In both the lower and senior school, students have demonstrated excellent work practices and submitted high standard work. The latter part of this year has seen staff make changes to all materials across Years 7–12 to support student learning, enhance the development of engaging content and make required syllabus changes.

2017 will see the implementation of the WA Curriculum in HPE across Years 7–10.

Award winners for 2016

Acknowledgement of those students who achieved the top result in their year group:

Year 7 – Maraina

Year 8 – Storm

Year 9 – Crystal

Year 10 – Talia

Year 11 General – Jolina

Year 11 ATAR – Mikayla

Year 12 General – Rita

Year 12 ATAR – Shaunieie and Tahla

Recognition Awards

Acknowledgement of those students who improved their grades, worked hard all year and maintained an excellent attitude towards their studies:

Year 7 Elite – Ebony

Year 8 Elite – Alexandra, Lucinda

Year 8 – Chloe, Mia

Year 7 – Ryan, Kane and Ingrid

Year 9 – Monique, Hail, Ruzell, Tricia, Senay

Year 10 – Brodie, Noah, Sharif

Year 11 General – Skye, Teah, Tayla

Year 11 – ATAR Jess, Angus, Laura, Sheldon, Sheridan, Paris, Ally, Ellouise

Year 12 General – Holly

Year 12 ATAR – Damita, Heidi



Hard-working Year 12 ATAR students from Mt Barker on a visit to SIDE. L–R Shaunieie (dual award winner of the Year 12 Health Studies Award) with Talia



Hard-working Year 12 ATAR student, Tahla, from Central Midlands (dual award winner for the Year 12 Health Studies Award).



Dr Richard Walley with Richelle Troode (Program Coordinator of LS) and Mary Chong (LS Teacher)

The future

2017 will see continued discussion and possible pilot programs to ensure that students can acquire movement skills, concepts and strategies to enable them to participate in a range of physical activities in a confident and competent manner.

As the Head of HPE I wish to extend my thanks to all the staff who have worked so hard with me during the year.

I also extend my thanks to the outstanding part time and relief staff who have filled in admirably when needed.

Bronwyn Rakimov

HOLA – Health and Physical Education

It is very pleasing seeing wonderful samples of student work. It has been a very productive year and the quality of work is improving. I would like to thank all the students and their



Artwork: Emus in the Mist by Dr Richard Walley

supervisors for their wonderful contributions this year and wish them all a safe and wonderful holiday break. I look forward to seeing you all next year.

Richelle Troode

Program Coordinator

Learning Support

Term 4 has been a very productive term for the staff and students in Learning Support as we have had a number of exciting events taking place along with the writing of Semester 2 reports.

During Week 2, Learning Support hosted guest speaker Dr Richard Walley, who spoke and entertained the teachers and students by sharing aspects of his life, culture and art. Dr Richard Walley OAM is a Nyoongar man; he is one of Australia's leading Aboriginal performers, musicians and writers, and has been a campaigner for a number of Indigenous causes. From the number of questions he was asked by the students, he was clearly well liked.

A number of teachers had the opportunity to talk to Dr Richard Walley after his presentation and learn a little more about him. Dr Walley was born in Meekatharra and had visited many of the communities in WA, which delighted the students. Dr Walley enjoyed his time at SIDE so much he offered to come back again and perform for us, so I look forward to planning this for early next year.

ASDAN

Congratulations to the students below for completing their ASDAN Awards Program in 2016. The Towards Independence awards are offered for Cooking, Using ICT, Work Awareness, Popular Culture and Horticulture.



HASS

Human Rights Poster

This term in Humanities and Social Sciences, the Year 10s have been studying human rights and looking at the struggle

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for rights of Aboriginal and Torres Strait Islander people. In this task, students were asked to create a poster about the rights they thought that Aboriginal and Torres Strait Islanders should have.

SCIENCE

Chevron Focus Environment Photography Competition

Year 8 students from Marble Bar entered a statewide competition, Chevron Focus Environment 2016. Students explored their local area to find images in the following categories: Western Australia's native species, Western Australia's Habitats and Ecosystems and Celebrating Human Energy and Sustainability. These photographs from Chloe and Jade display the natural habitats and ecosystems found in Marble Bar.



Poster by Taniayah, Year 10



The place where birds gather in Marble Bar by Chloe



Red kangaroo by Chloe



Kangaroos camouflaged in the marble rock at sunset by Jade



Where farming and the Earth meet by Jade

Science Investigation

In Semester 2, students conducted a science investigation. The aim was to determine if parachute size or shape affects how long it takes to fall to the ground. Students researched air resistance and gravity. Using string, paper, plastic and blu-tack, students made three parachutes to test and time the drop. Results were recorded in a table and graphed.



Year 8 student, Vee Jay from Shark Bay, with his parachutes.

Student Services

Term 4 – endings and new beginnings

As the end of the 2016 school year approaches, the Student Services Team would like to thank all students, parents, supervisors and teachers for their hard work and support throughout the year. No school year concludes without experiencing the highs and lows associated with teaching and learning but all SIDE students should feel confident that they are developing a variety of skills via their study program in the distance and online mode. Some of these skills include self-motivation, independent learning, communication and resilience, which should stand students in good stead for future careers and life. So from the SS team, a very Merry Christmas and Happy New Year and, most importantly, a safe and relaxing holiday.



Year 12s – whether you faced exams or not, congratulations on completing the year and good luck for wherever the future may take you.

Year 11s – a bit of time to relax before a final, challenging year. Remember that Year 12 is not a sprint to the finish line but one that requires consistent pacing with stamina.

Year 7–10 – choose elective subjects wisely for 2017 and construct your daily timetable with care. Build on skills learnt in 2016 and be organised and prepared from the start of the year.

SIDE students preparing for 2017

The Student Services team is now busy processing enrolments for new and continuing students who are home and school

based. An important part of the process is providing advice around subject and course selection. Particularly, it is an opportunity to start to get to know new students and their parents and/or supervisors.

Once the enrolment is processed:

Continuing SIDE students from 2016 will not receive a *Getting Started at SIDE* email and should log into Moodle at the start of the 2017 school using their same 2016 username and password.

New students to SIDE in 2017 should receive an email sometime in January 2017 with the subject line *Getting Started at SIDE* (sender: SIDE 360). The email is sent to the email address that was supplied by the student or their school at enrolment. The email will provide the student with details of how to log into the Department of Education portal and include login details for Moodle. It is vital that students log in to Moodle as soon as possible and update their profiles in order for SIDE teachers to allocate them to the right classes.

Most importantly, if there are any queries, students, parents, teachers at external locations, please contact the relevant SIDE student coordinator of their region:

<http://www.side.wa.edu.au/admissions/support-for-students/student-coordinators.html>

Success at SIDE is based on a strong partnership between:

- the student
- SIDE and its staff
- the home or base school supervisor/the base school
- parents.

Everyone in this partnership has a very important role to play.

Successful SIDE students take responsibility for their learning by:

- communicating regularly
- being organised
- staying on schedule
- taking advantage of available resources.



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Student Achievement

Rita – Year 12 Overseas 1



Rita, Year 12

For the last two years Rita has studied music and violin at the conservatoire in Lausanne and has been involved in many projects, concerts and classes. Music is an integral part of her life and Rita wishes to pursue it as her career. This year Rita travelled all over the world as assistant leader of second violins in the Australian Youth Orchestra International Tour.

Sven – Year 12 Overseas 1

Sven enrolled at SIDE in 2014 so he could pursue his passion for soccer without sacrificing his education. Playing with the Bohemians 1905 FC in Prague, one of Sven's achievements this year was his selection for the U17s Bosnian national team camp. Through his soccer, Sven has travelled all over Europe, experiencing different cultures and having the opportunity to realise his dream.



Sven, Year 12

Cody Nikola – Year 10

Congratulations go to Cody Nikola (Year 10) on being the recipient of two awards this year (Chevron and Clarence Eakins Awards). Cody Nikola, who has been living in Macedonia, has shown a strong commitment to his SIDE studies, and is focused on achieving to the best of his capabilities. He is a regular participant in Saba sessions, which means a very early start of around 5am! Cody Nikola's time management and organisational skills are to be commended and will provide a strong foundation for his Year 11 and 12 studies.



Cody Nikola receiving his Chevron award from Jonathan Bromage, A/Principal of SIDE

Charlesworth Ballet Institute students

SIDE students hail from all different parts. One of the areas that has seen an increase in student numbers over the last few years is Dance/Arts. Every Tuesday, Wednesday and Thursday morning the quiet halls of SIDE are buzzing with the sounds of the dance students doing their school classes with their SIDE teachers. Coping with a full-time dance program and school is a challenging experience so some of the Year 9 Charlesworth students have written what it means to them to dance full time and study through SIDE.



Year 9 Charlesworth Ballet Institute students.

"I find that dancing in an elite ballet program and completing my academic studies around my demanding timetable has been a challenge and takes up most of my time. It is physically and mentally demanding but it also means that I build a strong work ethic and learn to organise myself effectively. The discipline and determination it takes will definitely benefit me later in life no matter what I decide to do. I need to be independent and think ahead to make sure I complete everything to the best of my ability and under time pressure. These skills are valuable and I am glad that I have the chance to master them now." (Tabitha)

"With limited time, schoolwork sounds impossible as many athletes would understand. SIDE has been a saviour and it's a wonderful program that can work around different schedules. While studying at Charlesworth Ballet Institute it is dance, dance, dance but school work is still important. So a few tips I can give anyone are: keep organised with a diary (trust me), don't be afraid to email or give your teacher a call and use any time possible (sorry, TV shows will have to wait). These have helped me over the past three years and as a result I have coped very well." (Tara)

"I love doing full-time ballet and SIDE because it allows me to achieve independence and dedication and it brings me closer to my dream job of being a Ballerina." (Bella)

"I love going to full-time ballet and doing my school work through SIDE. I enjoy going to SIDE because it helps me to be responsible and independent. I think it is a great opportunity." (Samantha)

"The reason I enjoy dancing full-time and going to SIDE is because it trains me to become independent and have self-drive, not just in school but in daily life." (Tianna)

Work-based learning program – Mindarie Gourmet Meats

Connor, Year 11

Connor has been working at Mindarie Gourmet Meats for most of this year. His understanding of the world of work, communicating in the workplace and getting the job done have all improved as a result of this placement. Connor worked in a small area so became very conscious of sharing the work space with his co-workers. He has become familiar with aspects

of food preparation, including making sausages, burgers and chicken kiev. He is a conscientious worker as evidenced by his commitment to the workplace and completion of set tasks.

Connor commented that the highlight of his work placement was "The people I work with. They include me in the conversations and they are nice and friendly and tell different stories." Employers play a valuable role in ensuring that work placement students are made to feel part of the workplace.



Connor making wiener schitznel

Gay Tierney
ADWPL Coordinator

Workplace Learning – focus on Year 10s

Workplace learning enables the student to experience first-hand the world of work. Students also develop important Core Skills (linked to key Employability Skills) which underpin successful participation in the Australian workforce. Plus, they can use the ADWPL program to help achieve Secondary School Graduation (WACE).

This year a number of Year 10s have enrolled in ADWPL. They have all successfully completed a Work Safe Smart Move certificate in an industry area of interest and many of them have work placements. Enrolment in ADWPL in Year 10 gives those students intending to continue with the program in Year 11 a "head start" as they complete work readiness activities and familiarise themselves with log book requirements. Some of the Year 10s in the metropolitan area who have made good progress are Lauren, Abbey and Chelsea.

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Lauren

Lauren teaches young dancers at Katharine Mantle Performing Arts Academy. She demonstrates correct techniques and helps students to improve on their performance.

Katharine Mantle and Lauren at the Academy

Abbey

Abbey is an assistant teacher at Studio 24, Dance and Performing Arts. She assists the tap dancing teacher with teaching a Saturday morning class where her own expertise is also on show.

Abbey instructing a group of students (right)



Chelsea

Chelsea has a work placement with Antiquitea, High Teas.



She is mainly involved with setting up the tables for high tea functions, including setting up crockery and cutlery and ensuring items are matched.

Chelsea setting out the cups in preparation for a high tea

Shark Bay Year 10 students

Shark Bay School Year 10 students who have worked hard this year are Molly, Carlos and Leah.

Molly

Molly works at Ocean Park, Denham. She is keen to pursue a career in marine aquaculture and this work placement is helping her to understand marine life.



Molly in front of one of the fish tanks she cleans at Ocean Park

Carlos

Carlos has completed the requirements as his on-the-job training at Denham IGA X-press has been recognised and he worked with his teacher to complete the ten focus questions about his workplace.



Gay Tierney explaining a task to Carlos

Leah

Leah has successfully completed the program as she has been acknowledged for her work at the Shark Bay Supermarket and on-the-job training in the Kindergarten–Pre-Primary at Shark Bay School. Leah is interested in becoming a teacher and her work at the Shark Bay School has enabled her to develop a good understanding of what is involved.



Leah discussing log book entries with her supervising teacher

Gay Tierney
ADWPL Coordinator

SIDE Orientation Day – 2 December 2016

SIDE's Orientation Day provides an opportunity for our ballet students coming from the Primary School to see how learning will be different as a secondary student. SOTA Carnarvon students and overseas students who will be joining SIDE next year also attended.

Students spent the morning learning about how they will work in an online environment for each of their subjects and how they will access their course work and submit classwork or assessments. They met with their Student Coordinators and other teachers they will have in 2017. Some beautiful artwork was created with Jane and Kat before a tour of our Resource Centre and morning tea.

Other activities included some Phys Ed with Bronwyn and some vital information about navigating English and Maths Moodle courses with Linley and Carolyn. A great morning with a great group of fun and enthusiastic students!



In the theatrette and doing Art work with Jane and Kat



Ballet students enjoying fruit during the break



Phys Ed Activities with Bronwyn

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The Student Wellbeing Hub is an excellent starting point for information and resources about important topics to help make your child's experience at school a safe and positive one. As parents, you play a vital role in the mental health, happiness and wellbeing of your child, which, in turn, affects their sense of identity as well as their achievement. Select from Primary or Secondary to access information and advice to support your child or you may like to encourage your child to explore the students' section where they can explore topics important to them. To find out more, visit <https://www.studentwellbeinghub.edu.au/parents>.

Celebration of Student Achievement of Excellence

Our students at SIDE work very hard, and independently, to complete their lessons and assessments online. SIDE is very proud of all students and would like to acknowledge this achievement, often under difficult circumstances.

SIDE acknowledges and celebrates award winners from all year groups online. To read more visit www.side.wa.edu.au and select "About", then "Student Achievement 2016".

This is an important online event and I know you will join the staff at SIDE in acknowledging the significant achievement of our students.

Frances Herd
Deputy Principal

SECONDARY ASSISTANCE SCHEME

YOU MAY BE ELIGIBLE FOR UP TO:

\$350

towards school expenses

The Western Australian Department of Education provides an allowance to assist eligible families with secondary schooling costs.

The allowance consists of two components:

- \$115 Clothing Allowance paid directly to the parent/guardian or the school.
- \$235 Educational Program Allowance paid directly to the school to reduce the contributions and charges payable by the parent/guardian.

Applications for the scheme need to be completed by the parent or guardian for student/s enrolled in Years 7–12.

To be eligible for the allowance the parent/guardian must hold one of the following cards:

- Department of Human Services (Centrelink) Health Care Card
- Department of Human Services (Centrelink) Pensioner Concession Card
- Veterans' Affairs Pensioner Concession Card (Please note: The only Veterans' Affairs Card that meets the criteria is a blue card that is issued annually and expires in December each year. This card is income means tested.

The parent/guardian must be the holder of a card that is valid some time during the first term. The only exception to this is when a student holds a healthcare card and has been declared independent by Centrelink (eg living away from home). In this instance, a letter of confirmation from Centrelink needs to accompany the application.

The allowance is paid up to and including the year the student turns 18 years of age, ie students born in 1998 or before are ineligible for 2017.

Application forms are to be completed at the school during Term 1 and close Friday 7 April 2017.

For more information please contact the Cashier on 08 9242 6323 or discuss with the student coordinator at the time of enrolment.

SIDE Awards

Term 4 2016					
BRONZE					
Jordan	Katherine	Samantha	Jade	Jai	Holly
Connor	Samuel	Cheri	Mark	Monique	Merve
Thomas	Joshua	Hannah-Leigh	Caitlin	Maizy	Alannah
Brandon	Tahlia	Ryan	Ebony	Nelson	Shayn
Maraina	Marise	Taniayah	Emily	Tiniel	Layla
Samantha	Sertaj	Kane	Tricia	Layla	Liam
Krystal	Alisha	Emma-Rae	Ethan	Shenae	Ashleigh
Kai	Senay	Rumir	Lizzie	Sam	Dawn
Sarah	Gareth				
SILVER					
Giarna	Curita	Dior	Crystal	Izak	Jesse
Hail	Aiden	Monique	Darcie	Dawn	Alexandra
Cherie	Alisha				
GOLD					
Seb	Tahlee	Chloe	Shauna	Anika	Darien
Ruzell	Crystal				
PLATINUM					
Shenae	Isaac	Gary	Zac		