



# Leumeah Public School

## Fortnightly Newsletter

Week 10, Term 3, 2018

### Upcoming Events

#### WEEK 1

MON 15/10	Term 4 commences All students & teachers
TUE 16/10	School Banking
FRI 19/10	P & C - Movie Night Gates open at 5pm MOVIE STARTS 7.30PM

#### WEEK 2

TUE 25/10	School Banking Enlighten Education Years 3-6 girls
FRI 26/10	GALA DAY

PAYMENT DUE

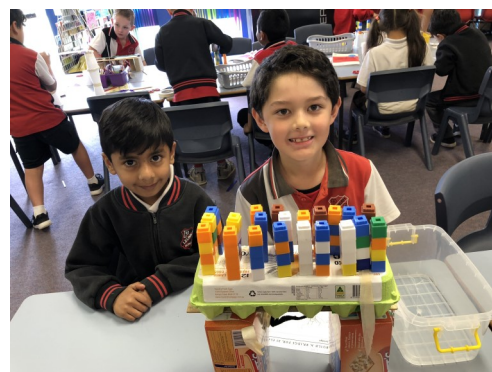
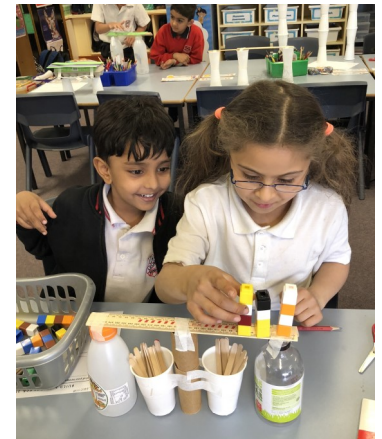
### From the Principal's Desk

Dear Parents and Caregivers,

Have a wonderful spring break! Thank you for your support over a busy term. We look forward to term 4 and finishing 2018 with our best term yet!

#### Congratulations to:

- To the P&C and the community for their successful 5c Fundraiser. They have raised over \$2800. The three highest fundraising classes, KA, 5/6R and 3/4 M will be celebrating with a pizza party this week.
- Year 6 and their teachers for organising a fantastic Spring Fair. Though the weather wasn't very spring like the stalls were lots of fun. Thank you to the community for their support on the day and for all the generous donations that were made!
- 1/2E, 1/2I and 1/2H for their amazing STEM work this week in designing and building bridges. Your planning, evaluation and redesigning produced fantastic results. Mrs Karen Endicott our Director was very impressed with your work and your teachers' innovative practices.



- 3/4K and 3/4P for their STEM work also. Mrs Endicott was very impressed with your knowledge of your learning styles and how your teachers had incorporated this to support your learning. Each of your learning style groups were able to support each other's projects. Completing circuits to power motors that gave movement and light to your models and then filming your work using a green screen wire very impressive!
- Thank you to the students who brought in a gold coin donation for the SRC mufti day for the Wollondilly Drought Drive a total of \$516.95 was raised. Well done!

**Thank you to:**

Mrs Connor for being the relieving AP while Mrs Croman was relieving DP for Mrs Hill. Mrs Connor has added value to the executive team and supported stage 2 staff, parents and students with her calm and quiet nature. Mrs Connor will return to her school in term 4, week 2.

**Staff Leave**

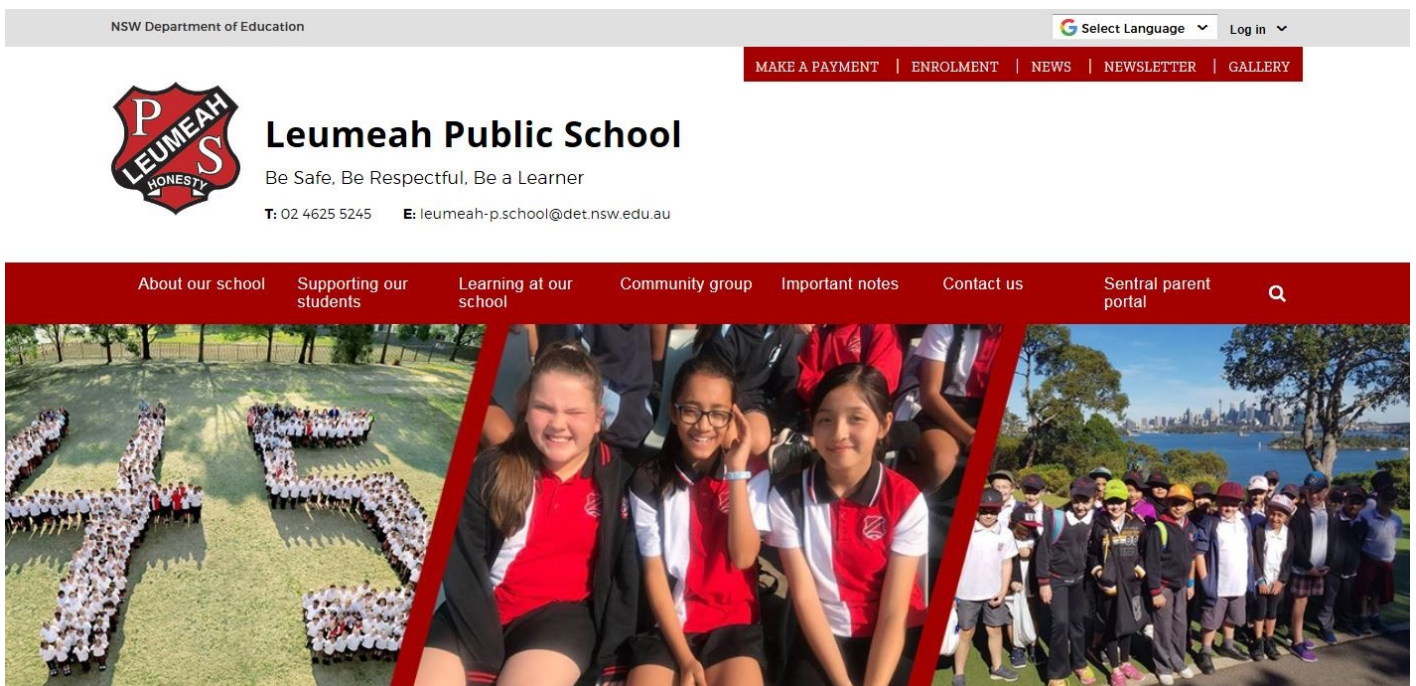
Mrs Allen will take leave from term 4 to the end of the year. Friday 28.9.18 will be Mrs Allen's last day at LPS as she has applied for a transfer. We will farewell Mrs Allen before the end of the year. We wish Mrs Allen all the best for her leave, travels and her new school.

Regards

**Kerry Wood**  
Principal

**Updated school website!**

The Department of Education have just updated our school website. We have been informed it will go live late this afternoon. It has a fresh new look with a few new features such links to our Sentral Parent Portal and our facebook page.



## From the Deputy Principal's desk

Last week was our final Gala Day for the winter season. Our 3-6 students should be very proud of the positive sportsmanship they have displayed throughout as well as, the great results from many of our teams. Last Friday infants participated in the K-2 tabloid carnival. There were lots of exhausted students and teachers by the end of the carnival. Thank you To Mrs Adams and Mrs Maytom for organising the carnival and to the K-2 teachers for their encouragement and enthusiasm throughout the day.

### Congratulations to the following students;

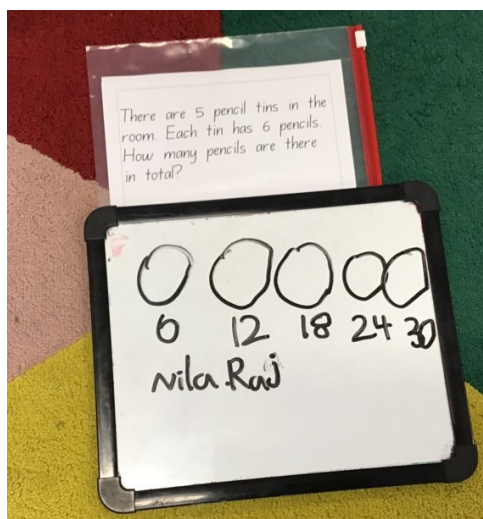
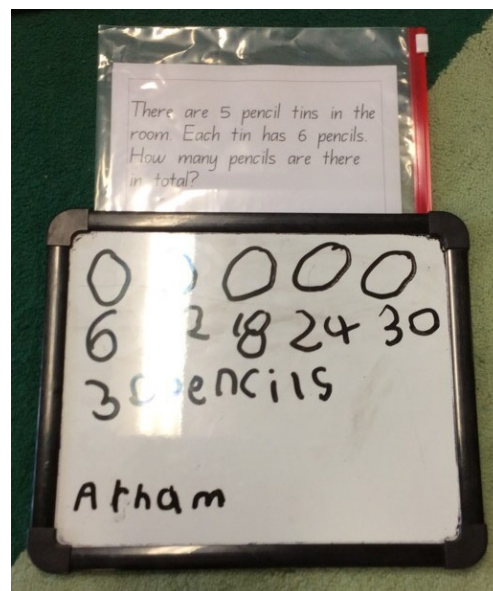
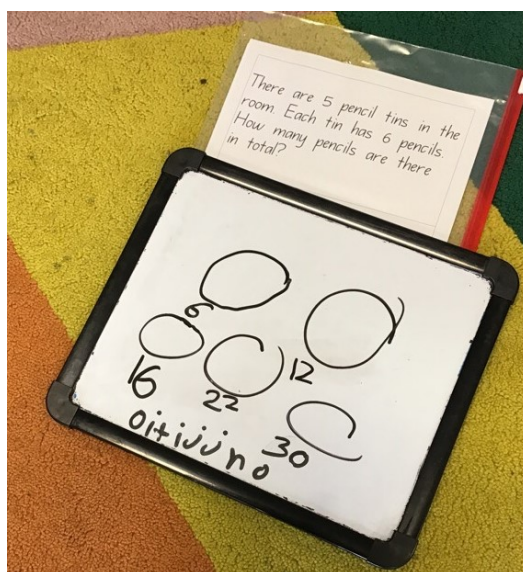
Afsheen and Blake in 1/2H for their amazing tall tales. Both students showed what great imaginations they had. I was a little concerned when a shark tried to eat them luckily a mermaid came in to save the day. Afsheen also used paragrapping effectively.

Oitijho and Nila in KC, who showed me how they used rhythmic counting to count groups and Arham, who proudly showed me how to skip count. Both these skills help young students to understand multiplication.

KB who were eager to show how much their seeds have changed over the week. Some students drew what they noticed while others wrote a short sentence explaining the changes. Well done to everyone in KB.

**Nadine Croman**

**Relieving Deputy Principal**



## Exciting News From The Library!!!

As some of you may have noticed there are some big changes happening in our library this year!

Mrs Croman and the library committee are working on plans to redesign the library into various flexible learning spaces to support 21st Century learning. There are plans for a Maker Space, reading nooks and booths, portable technology and new furniture that can be manipulated to suite various styles of learning!

We have also been on an exciting journey to update and add more non-fiction books to the space, so if you're into Minecraft, cars, dinosaurs, and things about the body. Come and have a look around, you can borrow to share with family and friends!

Due to popular demand we have purchased more novels including Tom Gates and Goosebumps. The Rangers Apprentice collection has been very kindly donated by William Pownall, a lover of reading and good friend of Miss Hall. We are very grateful for this extremely generous donation. These books are ready to be taken home to read, share and talk to your friends about.

We are continually adding to these collections, if any parents are interested in helping to get these books on the shelves and out there for students to read, we would love some help with covering them. Please contact the office or Mrs Stephens in the library if you are able to help.

We would also love to have any suggestions in growing our collections, if you have a suggestion, come to the library write your name, class and book or books you wish to be added. There will be paper provided for your suggestions just near the treasure chest as you walk into the library.

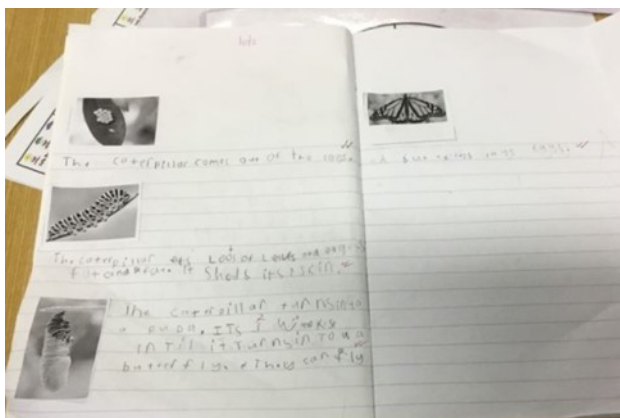
Throughout term 4 we look forward to sharing more news about the library and the amazing new books that will become available to borrow. Please pop in and see what we have been up to!

## Mrs Stephens



1/2H

1/2H have had an exciting term learning about living things. We have participated in STEM activities and completed research tasks in the computer lab on this topic. We have written informative texts about what we have learnt.



3/4M

During Term 3, 3/4M have been exploring the solar system in STEM. Their work has been amazing....

Maleeka



Juliet



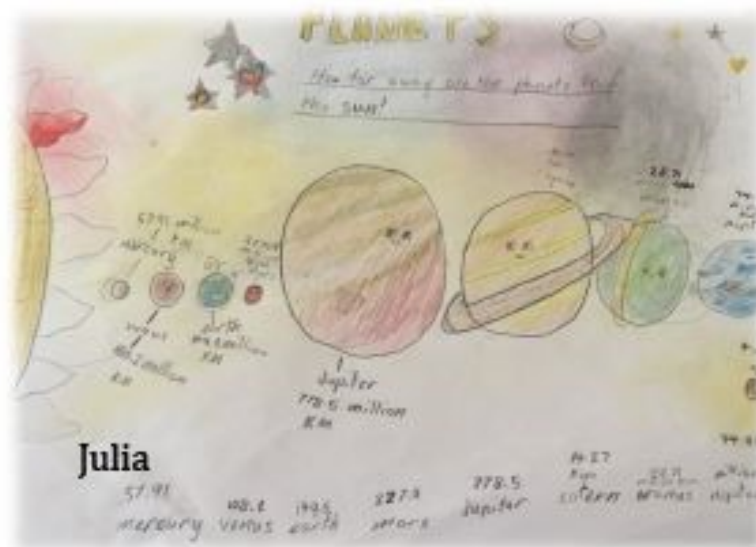
Adrian



Arisha

Letter of the alphabet	Space word
A	Astronaut
B	Black hole
C	Cosmos
D	Dimension
E	Escape velocity
F	Fuel tank
G	Galaxy
H	Helium
I	Interact
J	Jupiter
K	Katoptra
L	Light year
M	Milky Way
N	Nebula
O	Orbit
P	Planet
Q	Quasar
R	Rocket
S	Satellite
T	Taurus
U	Uranus
V	Van Allen radiation belts
W	White supergiant
X	X-ray radiation
Y	Yield
Z	Zodiac

**Azan**  
2023/2024



*What is the atmosphere?*

*What was the life when the first greenery was?*

*What did the dinosaurs do before the first dinosaurs?*

*What did the dinosaurs do after the first dinosaurs?*

*What did the dinosaurs do after the first dinosaurs?*

**Arisha**



### Stage 3 – Spring Fair



The Spring Fair was a fantastic school and community event. **The total funds raised was \$8100.00.**

The funds will support Year 6 events. The day consisted of various games, stalls and activities for students and their families.

A big thank you to Stage 3 students, teachers, LPS Staff and community for their support in making this event a success.

**Mrs Linda Hambley**  
Assistant Principal.









# Leumeah Public School

## Enrolling Now

### 4625 5245



[www.leumeah-p.schools.nsw.edu.au](http://www.leumeah-p.schools.nsw.edu.au)

## P & C News

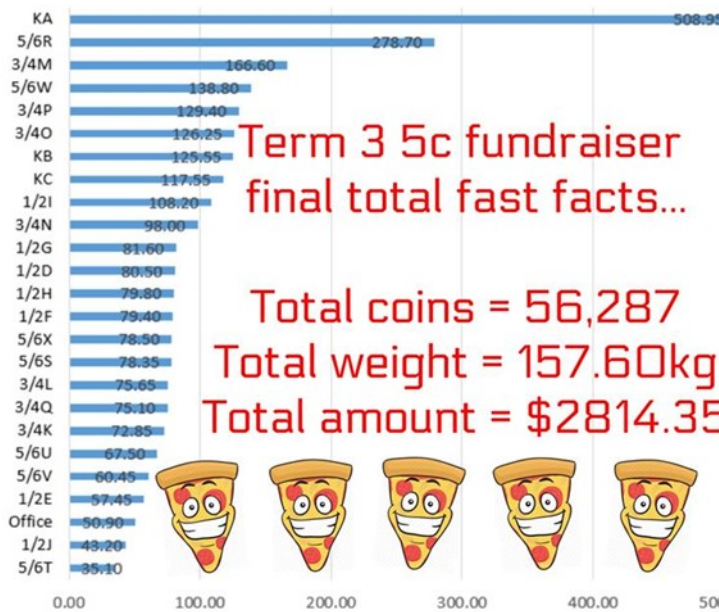
Thank you LPS for a successful ongoing term 3 fundraiser. Our 5c fundraiser raised \$2814.35. We were blown away by how many 5c pieces we received each week! Congratulations to our 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> place classes who have won a pizza party to be held soon.

1<sup>st</sup> place: KA – raising \$508.95 – Amazing!

2<sup>nd</sup> place: 5/6R – raising \$278.70 – Incredible!

3<sup>rd</sup> place: 3/4M – raising \$166.60 – Awesome!

### 5 Cent Friday Final Results



Term 3 5c fundraiser  
final total fast facts...

Total coins = 56,287  
Total weight = 157.60kg  
Total amount = \$2814.35



Class	Rank	Final Total
KA	1	\$ 508.95
5/6R	2	\$ 278.70
3/4M	3	\$ 166.60
5/6W	4	\$ 138.80
3/4P	5	\$ 129.40
3/4O	6	\$ 126.25
KB	7	\$ 125.55
KC	8	\$ 117.55
1/2I	9	\$ 108.20
3/4N	10	\$ 98.00
1/2G	11	\$ 81.60
1/2D	12	\$ 80.50
1/2H	13	\$ 79.80
1/2F	14	\$ 79.40
5/6X	15	\$ 78.50
5/6S	16	\$ 78.35
3/4L	17	\$ 75.65
3/4Q	18	\$ 75.10
3/4K	19	\$ 72.85
5/6U	20	\$ 67.50
5/6V	21	\$ 60.45
1/2E	22	\$ 57.45
Office	23	\$ 50.90
1/2J	24	\$ 43.20
5/6T	25	\$ 35.10
<b>TOTAL</b>		<b>\$2,814.35</b>

### 2<sup>nd</sup> Hand Uniforms

With our Kindy orientation approaching fast we are putting a call out to our current students in size 4 and 6. If you are thinking of upsizing your uniforms for our smallest kids in the coming months we would love to have your old, preloved, in good condition uniforms. We are currently low on 2<sup>nd</sup> hand stock and won't be able to continue the service without the generosity of our community. Pop your preloved uniforms into the office at any time for P&C collection.



### **Cheryl Owen Award for Volunteers**

This award is named in honour of the late Cheryl Owen, a woman who tirelessly gave her time and effort to Leumeah Public School over a number of years. This award is open to all carers and supporters of Leumeah Public School who work in a voluntary capacity - parents, grandparents, friends etc.

Our previous recipients were Mrs Baraka, Mrs Anderson, Mr Goodlet and Mrs So, typical of people within our school community who work throughout the year, dedicating their time and effort, usually behind the scenes, for the benefit of others. They are not alone when it comes to helpers in our school. There are many, many quiet achievers that give up their time, energy and even money for all our benefit, for the greater good. Scripture classes, classroom support for teachers, assisting at gala days, sports carnivals, swimming carnivals and excursions; participation in the P&C, other school events like Mother's Day and Father's Day stalls, events and discos. These are all the types of activities that need helpers, and need people to commit for success to be achieved. **Who do you know who helps out at our school in any way and deserves recognition?**

This is a special award honouring the memory of a very special woman, commemorated by a shield in our front office, and an individual certificate presented to the recipient. Please give our wonderful volunteers the recognition they deserve by nominating and voting.

### **Cheryl Owen Award Nominations**

Keep your eye open early next term for a volunteer of the year award, the Cheryl Owen award. A note will head home with all the details on how to nominate and vote for someone in our community who volunteers their time to help LPS in the classroom, at scripture, during sport or for the P&C. This award is presented at our presentation day at the end of Term 4.

**Rachel Dutton**  
**P & C President**

# P & C News

## Movie night

Our night under the stars is approaching fast! Can you believe it is almost term 4? Join us on the 19<sup>th</sup> October for an evening of entertainment, raffles, food trucks, jumping castles, face painting, archery, mini golf, fair floss, popcorn, showbags, BBQ's, dancing and the movie screening of COCO up on our giant inflatable 8m screen!



Presale tickets can be purchased now by returning the slip with cash to the office. Your tickets will be sent home during week 1 of next term. Tickets are also available to purchase on the night at the gate.

**Gates open at 5pm – The note home says 6pm – we apologise, you will be able to come as early as 5pm to enjoy all our preshow entertainment!**

Have you bought any raffle tickets? We have over \$4500 in raffle prizes this year and they are exciting experiences your whole family can enjoy! Prizes such as overnight accommodation at Rydges Campbelltown, dinner vouchers at Wests Leagues Club, Inflatable World, Taronga Zoo, Calmsley Hill Farm, Officeworks Tablet, Day Spa voucher, Martial Arts Membership, Movie tickets, Wizard of Oz Super Party and Indoor Soccer Party vouchers are just a few of our awesome prizes! Please return your tickets and money to the front office before movie night. Tickets are \$1 each and more books can be arranged.

Can you volunteer on the night? We are offering all our volunteers the opportunity to win a family pass to Scenic World in the Blue Mountains. This pass includes all your attractions and rides at Scenic world including the cable cars, sky train and rainforest walks. Please sign up using the link below or return your volunteer slip on the note that was sent home.

### [COMMUNITY MOVIE NIGHT](#)

Thank you to all our major sponsors for the event! Without your help our event would not be a success!

**Bank of Queensland Campbelltown**

**Gracie Barra Campbelltown**

**Paint Rock**

**Karisma Accounting**

**Anoulack Chanthivong MP**

**Rydes Campbelltown and OTIS Grill**

**Simply Organised Simply Beautiful**

**Disability Trust Campbelltown**

**YMCA - Macarthur before and after school care**

**Campbelltown Indoor Soccer**

**Wizard of Oz Funland Leumeah**

**Campbell Electrical**

Keep up to date with all P&C news on our social media Facebook page. Follow us at [www.facebook.com/lpspandc](http://www.facebook.com/lpspandc)

# Events Committee



## Parent Conference Reflections

The P & C and LPS staff nominated a group of 5 parents to attend the annual Parent Conference. Parents -Rachel, Melanie, Tracey, Jennifer, Suleka and I took part in activities aimed at empowering all to discover their authentic strength within. The intended outcomes were:



1. Fostering a sense of hope and therefore a power within.
2. Focusing and developing the power of positive thinking.
3. Promoting self-belief and wellbeing.
4. Awakening the power within to live our dreams.

The guest speakers were the Airs HS principal Mr McGuire, a CEO and author Mr Ducker, COSTCO Rep Ms Tupou and Ms Wyber a Mindset strategist. It was a great opportunity to learn and grow skills that will empower our students/children.

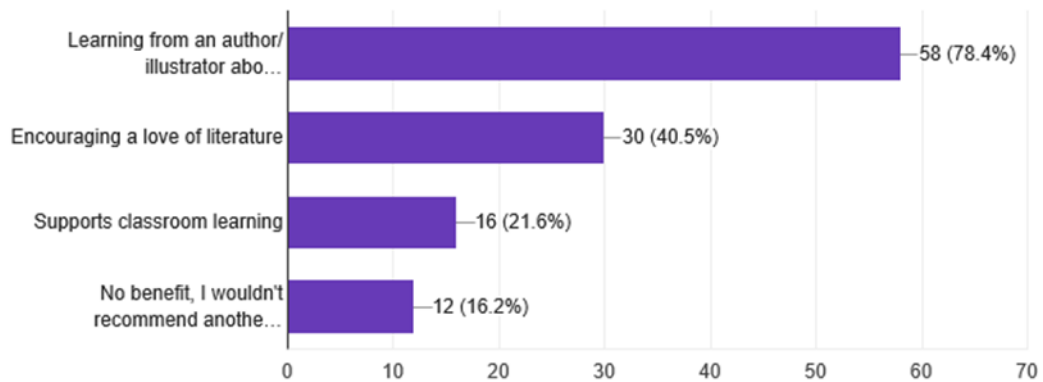
## Book Week Reflection

The P and C have kindly offered to cover the cost of the Author Visit, David Legge. The gold coin donations totalled \$515.00. The donated money will be used to purchase texts that will be used in the library. On the next page is a snapshot of the survey that was completed.

**Mrs Linda Hambley**  
Assistant Principal.

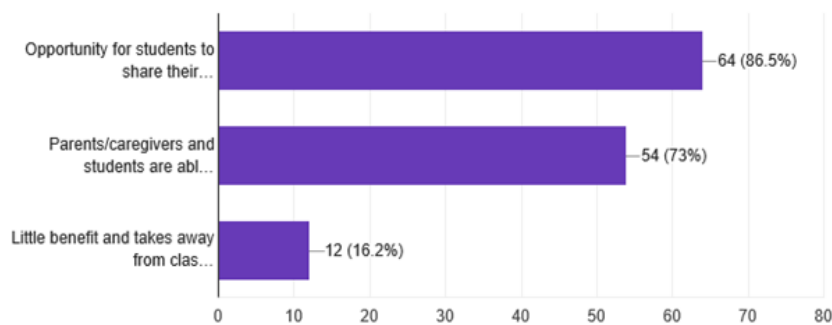
## What benefit do you feel students had from the author visit, David Legge?

74 responses



## What benefits do you feel the Book Week parade has? (you are able to tick more than one)

74 responses

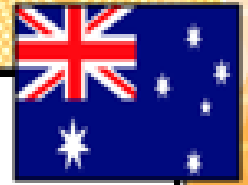


### Stage 3 – Cyberbullying Workshop

On the 19<sup>th</sup> of September Senior Constable Clapman visited LPS and spoke to all Stage 3 students. The students took part in the “Think U Know” course on cybersafety designed by the Federal Police. Senior Constable Clapman shared with the students how to be safe online. He spoke about password security, what should be shared and our legal responsibility. All students were engaged and asked questions to explore issues fully. I will continue to support E-Safety learning through guided inquiry.



Mrs Linda Hambley  
Assistant Principal.



# Our *Deadly* Stars

## LARC Day Term 3



Last week a group of Stage 2 Aboriginal students participated in a LARC session at Kentlyn Public School. LARC means Leumeah Aboriginal Representative Council and includes LPS, Leumeah HS, Ruse PS and Kentlyn PS, as four schools within a close community range. The purpose of LARC meetings is to encourage community, collaboration and culture for our Aboriginal students.

Students participated in an art activity and got to design and paint their own wooden boomerang. They learnt about some traditional Aboriginal games and had the chance to play them in small groups in the playground. Finally, students enjoyed a barbecue lunch with their new friends. Our students' behaviour and participation were excellent and they enjoyed themselves thoroughly. Well done!

**Mrs Hall**





### **Centenary of Armistice Grant approval**

The Centenary of Anzac 2014 to 2018 is Australia's most important period of national commemoration. Marking 100 years since our involvement in the First World War, the Anzac Centenary is a time to honour the service and sacrifice of our original ANZACs, and the generations of Australian servicemen and women who have defended our values and freedoms, in wars, conflicts and peace operations throughout a Century of Service.

One of the most important legacies that can come from the Anzac Centenary is to improve community understanding and awareness of our wartime history, particularly for younger Australians.

Earlier this year, Mrs Croman applied for a grant for our school to create a commemorative wall that will honour the service and sacrifice of our ANZACs as well as, assist in our understanding as a whole school community.

Our school was successful in obtaining this grant from the Department of Veterans Affairs and Dr Frelander presented us with a cheque at our whole school assembly.

We will be creating a bottle cap artwork. To begin this task we are asking for people to bring in plastic bottle caps in black, white, green, yellow, orange, red and blue. We are looking for all different sizes and shades of these colours. Please make sure they are clean as we don't want to encourage ants, and no bigger than 10cm in diameter. A container will be placed just outside the office.

**Thank you**

**Nadine Croman**  
**Assistant Principal**

School Holiday Fun

# TENNIS

## COACHING CLINICS

Monday 1 October – Wednesday 3 October  
9am – 3pm

Kids aged 4 - 17 years  
(beginners welcome)  
Full supervision provided  
Complimentary sausage sizzle  
on final day to celebrate

\$90 for 3 days  
\$35 per day  
(half day \$20)



Please call Jared Zeeman on 0404 457 088 or email [jared@centrecourttennis.com.au](mailto:jared@centrecourttennis.com.au) to book your spot

wests  
CENTRE COURT TENNIS

1800 000 000 | www.wests.com.au

# SPRING

## [ KIDS BINGO ]

Tuesday 2nd & 9th October  
10.30am – 12.30pm | 1.30pm – 3.30pm

\$8 per child per session  
including Bingo Book, Texta,  
Fruit Piece and Poppa

Show your child's ticket at  
the Brasserie after Bingo  
for a \$5 lunch of your  
choice from our Kids Menu



Call Reception on (02) 9606 5301  
or visit [www.countryclubgh.com.au](http://www.countryclubgh.com.au)  
for tickets!

\*Children must be accompanied by a responsible adult



Country Club  
GLENWOOD HILLS

1800 000 000 | www.countryclubgh.com.au

## [ Wests KIDS DISCO ]

Wednesday 3 October  
Wednesday 10 October

11am – 1pm  
Wests Auditorium

\$5 per session and includes  
games, dancing, and prizes to be  
given away!

Keep the  
kids entertained  
these school  
holidays!



wests  
CENTRE COURT TENNIS

1800 000 000 | www.wests.com.au



# bricks 4 kidz



## Lego Party



Thursday 4th October  
6 – 12 years | \$15 per child

Workshop 1: 10am – 11.30am

Workshop 2: 12pm – 1.30pm

Workshop 3: 2.30pm – 4pm



Don't miss out - Max 50 per session  
Call (02) 9606 5301 or visit [www.countryclubgh.com.au](http://www.countryclubgh.com.au)  
to book your child's seat today

Themes include Superheroes, Minecraft, Amusement Park  
Rides, Pokemon, Minions plus lots more!



Country Club  
GLENWOOD HILLS

1800 000 000 | www.countryclubgh.com.au

Monday  
8th  
October



# KATY PERRY & TAYLOR SWIFT

TRIBUTE

Kids can sing along to their favourite hits including T.G.I.F., Shake it Off, Roar, LoveStory, Trouble, Teenage Dream, California Gurls and much more

Kids Concert

Wests Auditorium  
Time: 11am - 1pm  
\$15pp or 3 for \$40  
Bookings: westslc.com.au

LIVE BAND  
PRIZE GIVEAWAYS  
MEET & GREET AFTER THE SHOW



wests  
LIVE! | www.wests.com.au

# [ KIDS TACO ] Cooking Class

FRIDAY 12TH OCTOBER  
11am - 12pm  
\$15 per child



Includes taco ingredients, equipment and aprons

All children must be accompanied by a responsible adult and registration forms need to be completed prior to the class - see website for more details

Bookings: countryclubgh.com.au

Country Club  
LIVE! | www.clubgh.com.au

# SPRING [ KIDS BINGO ]

Thursday 4 & 11 October  
11am - 1pm

\$8 per child per session  
including Bingo Book, Texta,  
Fruit Piece and Poppa

Show your child's ticket at  
the Brasserie after Bingo  
for a \$5 lunch of your  
choice from our Kids Menu



Call Reception on (02) 4628 4188  
or visit [www.westslc.com.au](http://www.westslc.com.au)  
for tickets!

\*All kids must be accompanied by a responsible adult

wests  
LIVE! | www.wests.com.au

## Tuesday 9th October 2018 - DAY 2 Workshops

### CREATIVE CODING

Yr 1&2

Ever day-dreamed about creating your own computer game? Exploring basic programming tools and algorithms, Thinkers will create computer games in the Scratch Programming & Learning Environment. Developed by Massachusetts Institute of Technology, Scratch is an entertaining way to teach children to write computer programs. All equipment supplied.

### SLIMY SCIENCE

Yr 1&2

Experiment with giant bubbles, gooey slime and other gunky substances to explore the wonderful world of science. Do you have what it takes to be a mad scientist? In this exciting day of hands-on experiments you will learn to ask probing questions, test your crazy theories...and get messy along the way!

### CREATURE KEEPERS

Yr 1&2

Calling all mini-zookeepers! Do you love creatures? You will spend a day caring for REAL Australian reptiles, frogs, invertebrates and snakes! Get your hands dirty alongside our trained zoo keepers and explore the behaviours, diets, toilet habits, lifecycles and homes of these amazing creatures. This group of Thinkers will interact with a range of live animals in a safe and controlled environment, learning how to handle and care for them.

### MAGNIFICENT MACHINES

Yr 3&4

Using LEGO NXT and EV3 Mindstorms robotics, children will learn to build and program machines that can perform a variety of entertaining and increasingly more challenging tasks. Activities include Olympic athlete, Sumo battles and Wacky races. Suitable for beginners and intermediate levels of robotics experience.

### FASCINATING FORENSICS

Yr 3&4

Ever wondered how a scientist can become a super sleuth? Immerse yourself in the intriguing world of forensic science including a CSI workshop, DNA extractions, fingerprinting, and other amazing crime solving techniques.

### EXTREME ENGINEERING

Yrs 3&4

Are you fascinated by how things work and get a 'buzz' from creating your own models? Join us for a day of extreme engineering during which you will design and build a range of machines, including a catapult, a slingshot racing car, a propeller plane and a straw rocket. Fine tune your design through rigorous testing and develop a clearer appreciation of the scientific principles involved.

### LEGENDARY LINGUISTS

Yr 5&6

The Egyptian, Greek and Roman cultures have each played a significant role in shaping Western Civilisation. Their alphabets and use of language were foundational for the development of our modern languages, their ideas have shaped our modes of government, form the basis of our philosophical canon and infuse a multitude of other aspects of our modern lifestyles. Immerse yourself for a day in the fascinating ideas of the ancient world, learning to decipher hieroglyphics and beginning to appreciate the majesty of the Latin language which is the root of much of our English vocabulary.

### MASTERFUL MOVIE-MAKING

Yr 5&6

Loved the Lego Movie? Want to be the next big 'YouTube' sensation? Ever dreamed of one day making it as a Hollywood director? Spend a fun-filled day learning the skills of digital animation and producing a take-home DVD of your very own Lego mini-figure movie. Devise the storyline, shoot the action using the latest computer software and digital cameras, then create your own soundtrack to accompany the action.

### CHEMICAL CONCOCTIONS

Yr 5&6

Fascinated by what makes something froth or bubble, while other substances dissolve, rust or ignite? Enjoy a day of experimentation as you concoct potions, analyse chemical reactions and build models of different molecules. Learn about the incredible properties of different everyday compounds and explore the strange behaviours of the amazing elements that make up the periodic table. A hands-on day of experimental chemistry.



**THINK CLUB**  
EXPANDING YOUNG MINDS

Think Club Australia provides experiential workshops for the inquisitive, problem-solving, creative and capable primary school child. Our one day, hands-on workshops are enjoyable, fun and interesting.

MONDAY 8th OCTOBER 2018

TUESDAY 9th OCTOBER 2018

9am – 3.30pm  
Sydney Boys High School  
Moore Park, Sydney

[www.thinkclubaustralia.com](http://www.thinkclubaustralia.com)

## REGISTRATION

MONDAY 8th OCTOBER 2018 &  
TUESDAY 9th OCTOBER 2018  
9am – 3.30pm  
Sydney Boys High School



To register for our amazing workshops please visit our website:  
[www.thinkclubaustralia.com](http://www.thinkclubaustralia.com)

1 Workshop - \$110  
2 Workshops - \$210  
3 Workshops - \$300  
each additional workshop \$90

Total registration fees are based on the number of workshops booked using the online form.

Please ensure you select both a first and second workshop preference as the first choice cannot be guaranteed.

Places are allocated on a 'first in' basis as workshops will fill quickly.

For more information contact us at  
[info@thinkclubaustralia.com](mailto:info@thinkclubaustralia.com)

 **THINK CLUB**  
EXPANDING YOUNG MINDS

## Monday 8th October 2018 - DAY 1 Workshops

### EARLY ENGINEERS

Yr 1&2

What are the best designs for building strong bridges, constructing tall towers, firing projectiles and producing the fastest racing cars? Why do some things float and others sink, some things fly and others crash to earth? Discover the answer to these questions and much more in a great day of engineering feats!

### BRILLIANT BUBBLEOLOGISTS

Yr 1-3

Are you mesmerised by bubbles and balloons? Want to learn to make awesome balloon sculptures and find out what it's like to be INSIDE a bubble? Spend the day with our resident Bubbleologist learning the secrets of the trade! During a day of hands-on exploration, Thinkers will learn about surface tension, gravity and pressure and will experiment with different ingredients to discover for themselves the perfect recipe for producing monster bubbles. They'll enjoy the best bits of bubbling and ballooning, from blowing them to bursting them and discover lots of amazing science that happens along the way!

### GROSS HUMAN BODY

Yr 1-3

Learn about the complexity of the human body and use microscopes and realistic models to look at the incredible workings of the major body systems that sustain your life. Discover how the five senses work and explore many of the bodies gunky substances such as blood, snot, vomit and pus in this hands-on biological workshop. Not for the faint hearted...but so much fun!

### CLEVER CODERS

Yr 3&4

Interested in coding? Want to create the next great computer game? Explore coding tools and algorithms in the Scratch language developed by computer engineers at MIT. As its founders say, programming enables kids "to think creatively, reason systematically, and work collaboratively". All equipment supplied, just bring cleverness!

### CLAYMATION CREATIONS

Yr 3&4

Love 'Wallace and Gromit' or 'Shaun the Sheep'? Try your hand at making your own Claymation film. Using the Stopmotion/Claymation process, you will storyboard, animate, edit and finally burn your movie onto a DVD. Have fun unleashing your creativity, honing your writing skills and exploring the technology behind Claymation Creations! All materials are provided.

### STELLAR SPACE & ROARING ROCKETS

Yr 3&4

A science workshop that is out of this world! You will have a blast as we shoot for the sky in this full day of hands-on space related experimentation. You will make water rockets fly, learn the Newtonian principles behind rocketry, find out about technologies needed to survive in space and speculate about what the future of space exploration may hold. You will investigate gyroscopes, hold meteorites, see a real space shuttle tile get tested under flame and make a rocket cart to take home.

### MATHEMATICAL MAESTROS

Yr 5&6

Indulge your passion for all things mathematical. Lose yourself in logic. Immerse yourself in the secretive world of the code-breaker. Explore the intricacies of the five Platonic Solids and be tantalised by the art of tessellation. So much to see, so little time, on this 'tour de force' of mathematical mysteries.

### ZANY ZOOKEEPERS

Yr 5&6

Have you ever dreamed of spending a day caring for REAL Australian reptiles, frogs, invertebrates, omnivores, herbivores, carnivores and ectothermic animals? Get your hands dirty alongside our trained zoo keepers and explore a variety of animal husbandry techniques including feeding and nutrition, capture and handling and housing needs. You will interact with a range of live animals in a safe and controlled environment, learning how to handle and care for them as well as discovering fascinating information about their lives.

### HANDS-ON HYDRAULICS

Yr 5&6

Design and build a working hydraulic crane! Learn about complex levers, pulleys and movement. Find out what the difference between hydraulics and pneumatics is... and put this new found knowledge to work as your team designs, engineers and constructs a model crane using timber and other materials. Engineer your design and use the principles of hydraulics to lift and transport a load from one location to another!



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