



# AROUND THE PALACE

Dear all,



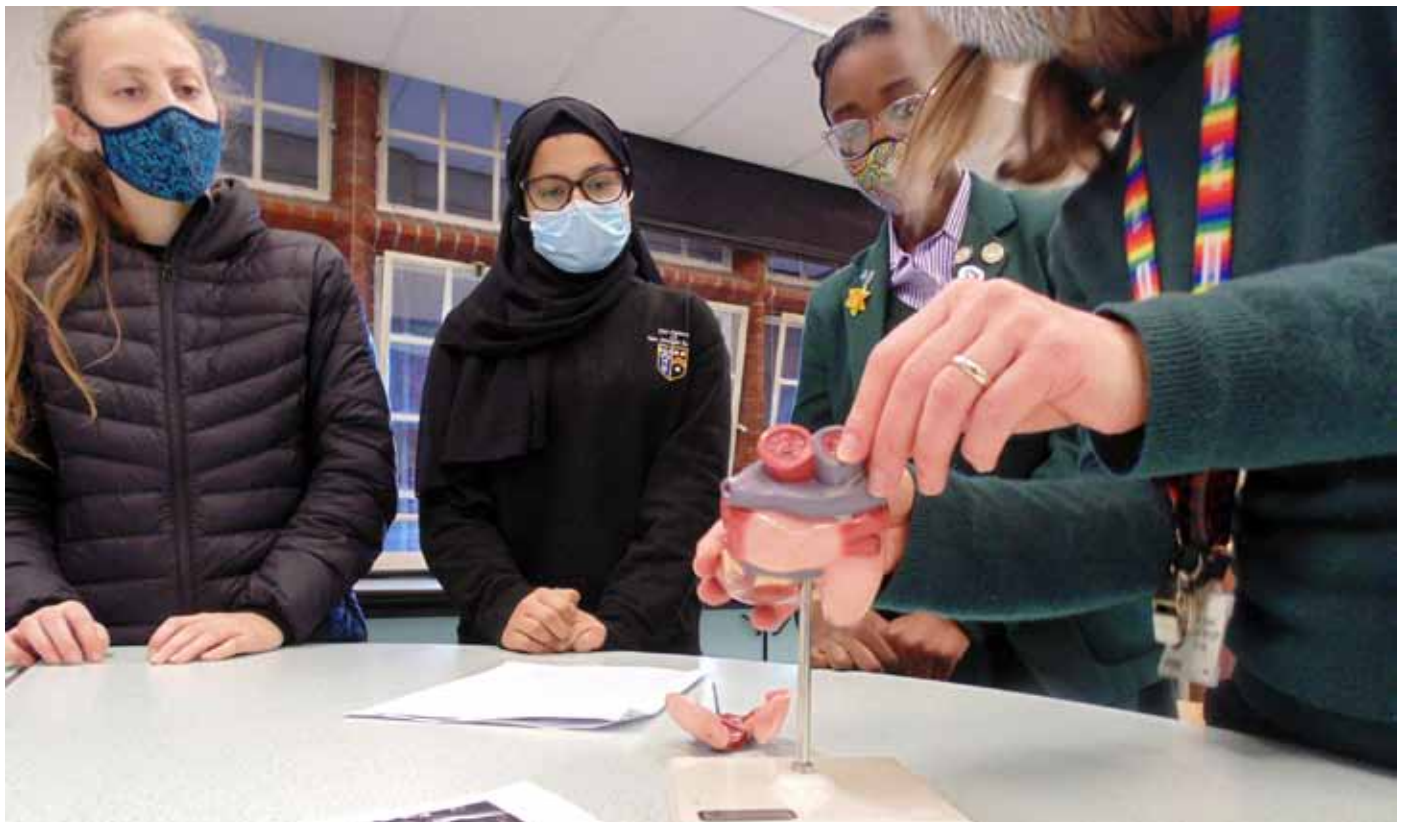
This week's Bulletin has a particular focus on Science across the Senior School and shows the huge range of activities that happen both in the classroom and outside to develop our student's interest in science. This is something we are very proud of at Old Palace alongside the wide curriculum offer that also includes the arts, humanities, languages and many other areas. Science skills are well-developed at Prep too; the Year 6 students also dissected pigs' hearts in the autumn term as part of their curriculum and were very keen to

describe this to me (in gory detail!) when I had the pleasure of meeting them individually in the autumn term!

Wishing everyone a good weekend.

Jane Burton, Head

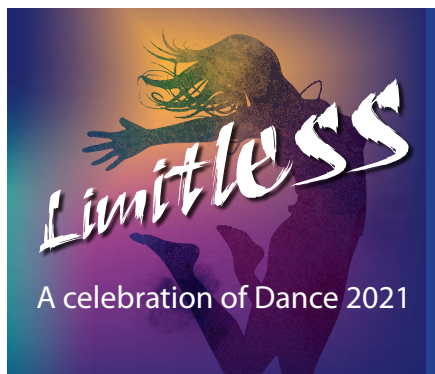
## Year 10: MedSoc Studies Pig Heart Transplant



In this week's Year 10 MedSoc, we looked at a news story about the pig heart transplant.

Students studied the heart structure and discussed the medical and ethical challenges of transplanting organs from animals.

Limitless now on YouTube



The video of the Limitless Dance Show from December is now available to view on our YouTube channel.

See it here:

<https://youtu.be/kGDbTpCYWYS>



## Prep Informal Concert



In December, many of our pupils in Years 2,3,4 & 5 delighted parents and friends in the Assembly Hall by performing solo pieces on their instruments. For many of the students it was the first time they had played a solo in school as there have not been any concerts for two years. It was a lovely afternoon. Congratulations to everyone who took part.

Miss Fitzgerald

## Clubs: Spotlight on...Science

The Science department runs a wide range of clubs to challenge students of all ages.

### Science Challenges

A Science Club for Year 7 where students are posed a practical challenge to solve, using scientific knowledge



### PhysSoc



Year 10-13 carry out Physics investigations, practicals, discussions, quizzes, talks and videos, among many other activities.

### Practical Problem Solving Club



Year 7-13 students devise engineering structures/ machines to solve a given problem, using very simple materials.

### ChemSoc

Year 10-13 carry out Interesting experiments, investigations and competitions taking Chemistry beyond the curriculum.



## MedSoc

MedSoc is for Year 10 students who are interested in healthcare or veterinary careers. We do activities to develop skills that demonstrate the values required for these professions. Last term Year 10 named the bones of the human body, learned about different careers in the NHS and played games to improve their communication skills. Sixth formers also share their experiences of applying for medical school.



## BioSoc

BioSoc gives Sixth Form students the chance to carry out exciting Biology practicals, including separating DNA fragments and cloning cauliflower, to discussing ethical issues and taking part in quizzes, along with many other activities.



Old Palace  
**Alumnae**

Join us at the  
**OPA Reunion Dinner**  
Saturday, 19 March 2022 at 7.00pm  
Cocktails & Dinner  
£49.50 per head

Tickets/further information email:  
[oldpalacereunion@gmail.com](mailto:oldpalacereunion@gmail.com)

**Calling all alumnae! The OPA is holding a Reunion Dinner in the Banqueting Hall at Old Palace on Saturday, 19 March.**

This is a great opportunity to catch up with old school friends, so why not make up a table (8-10 per table). Alternatively, come on your own and let us know which year you left Old Palace; we will sit you at the most age appropriate table.

The evening starts at 7.00pm with cocktails, followed by a three course meal. The ticket price of £49.50 per head includes a half a bottle of wine/soft drinks. Dress code: smart.

For further information or to reserve a place, email:  
[oldpalacereunion@gmail.com](mailto:oldpalacereunion@gmail.com)

## Year 8: Netball v Wallington

The Year 8 Netball A and B team played a match against Wallington High School. The students played really well, showing dynamic movements into space and some really good interceptions.

Both games were extremely close. The A team lost 5-4 and the B team won 6-4.

Well done everyone!



## Year 4 Investigates!

In Maths this week, we have been identifying links between the multiplication tables. We particularly enjoyed 'Making Multiplication Shapes'.

We discovered that the tables for numbers with the same units make the same shape in the same direction e.g. 2, 12. Whilst tables of bond pairs to 10 make the same shape but in the opposite direction e.g. 2 and 8; 3 and 7; 4 and 6. The 1 and 9 multiplication tables make a decagon, but in opposite directions. Any multiplication tables for numbers with 5 ones make a straight line between 0 and 5.

Finally, the multiplication tables for multiples of 10 are a dot on 0. Try it for yourself!

**Making multiplication shapes!**

For each multiplication table, draw lines from the digit of the ones in each multiple. Stop when the ones digit is 0.  
Why are the same shapes appearing? Are they created in the same way? Multiples of what other numbers will produce the same shape?

Our new topic is about human digestion, starting with teeth. We have learned about the functions of our different teeth; how teeth vary between omnivores, herbivores and carnivores and the structure of the human tooth.

As part of our work on looking after our teeth, we are investigating the effect of Coca Cola, vinegar and water on egg shells. We have made our predictions and will find out if we were right in a couple of days!



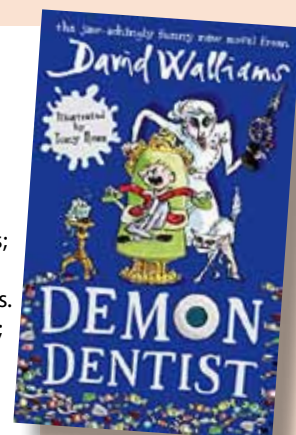
In English, we have been considering the effect of an author's use of language – vocabulary and poetic devices – and punctuation to create images and mood.

We analysed 'The Eagle' by Alfred Lord Tennyson and 'Demon Dentist' by David Walliams, which is our class reader. We have been using personification to write descriptions of wildlife and a magical school where everything is alive.



### The Eagle by Alfred Lord Tennyson

He clasps the crag with hooked hands;  
Close to the sun in lonely lands,  
Ringed with the azure world, he stands.  
The wrinkled sea beneath him crawls;  
He watches from his mountain walls,  
And like a thunderbolt he falls.



## Reception: Space Station

Reception's Cornerstones topic for this half term is called, 'What happens when I fall asleep?' The girls will be finding out about constellations and the Hubble telescope, as well as nocturnal animals, the importance of sleep and jobs that people do at night. It's sure to be a stellar topic!

Mrs Bardens has created the most amazing space station for the Reception classroom which is truly 'out of this world'. It even has a telephone hotline straight to outer space!

There's also an intricate model of a rocket for the girls to play with and a space suit/dressing up costume.

We think Mrs Bardens would give Elon Musk's rocket building company a run for its money!



## Year 9: Duke of Edinburgh Silver and Bronze Award Candidates

Last Saturday, the Bronze and Silver Candidates for the Duke of Edinburgh Award Scheme had a training day at school. They learned about what to pack in their rucksack while on expedition, how to feed themselves and use the Trangias, how to administer basic first aid, read a map and lots of other

useful information needed for completing the practice and quality expeditions later in the year.

Well done to all those who took part – we hope you feel equipped and ready for action!



## Prep Introduces New Spring Term Lunch Menu

- Did you know that 95% of our dishes are cooked in our on-site kitchen by our catering staff?
- We recognise all food preferences in our menu and always have Halal and allergen free options
- All our eggs are free range and organic
- All of the potatoes we use in our dishes are organic, as well as many of the vegetables
- Being seasonal allows us to contribute to our sustainable goals

See the Spring Menu here:

<https://www.oldpalace.croydon.sch.uk/prep-introduces-new-lunch-menu/>



## Maths Puzzle Fun

Solve for the values of P, Q and R?

$$\begin{array}{ccc}
 \boxed{P} & 7 & 2 \\
 3 & \boxed{Q} & 8 \\
 \hline
 4 & 7 & \boxed{R} \\
 \hline
 \end{array}$$

- P = 0 Q = 8 R = 1
- P = 0 Q = 9 R = 1
- P = 1 Q = 9 R = 0
- P = 0 Q = 9 R = 0

Answer on page 11

## Years 5 & 6: Football v Croydon High School



Pupils from Years 5 and 6 took to the field on Monday after school to play Croydon High School at football.

The girls played two matches. There was some great work from Old Palace which resulted in one win.

Well done everyone!

## Prep Cookery Club

Pupils made some really yummy Pizzas with Mrs Coster on Tuesday. We can't wait to see what next week's bake will be!

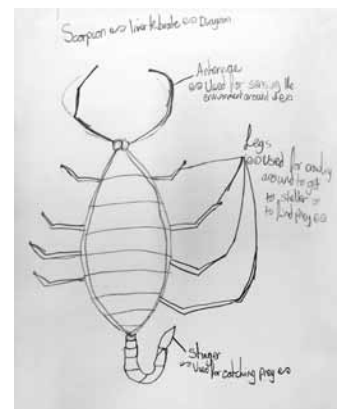
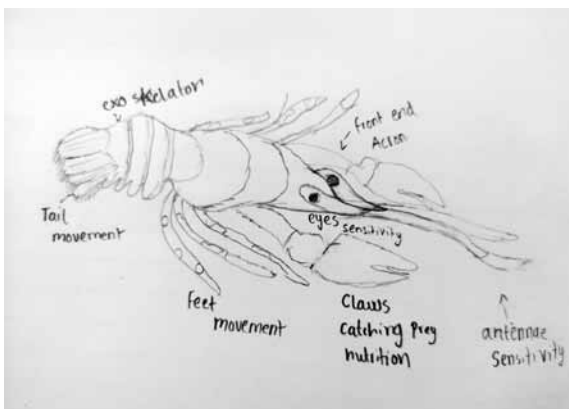




## Year 6: Science

Year 6 pupils headed to the Senior School this week for another memorable Science lesson. As part of our new topic, 'Frozen Kingdoms', we learnt all about the seven characteristics of living things (MRS GREN). Amanah found comparing non-living objects with living specimens lots of fun! We looked at specimens such as snakes, mice, frogs, crayfish, spiders, and scorpions. When considering how trees move and why, Dr Edwards taught us that whilst trees do not walk, they do turn to face the sun.

After learning about classification and the animal kingdoms, we came up with our own systems for classifying cats and dogs (for example, domestic and wild). Finally, we had lots of fun learning how to draw the animal specimens in front of us. Dr Edwards taught us that our biological drawings should not be improvised; should be drawn using pencil and we should not sketch. A fun start to our topic!





Old Palace of  
John Whitgift School  
Independent Girls' School

PRODUCTION OF DISNEY'S

# BEAUTY AND THE BEAST



2nd | 3rd | 4th February  
Banqueting Hall at 7pm

Tickets via WisePay £5 adult | £3 children/concessions

MUSIC BY  
ALAN MENKEN

LYRICS BY  
HOWARD ASHMAN & TIM RICE

BOOK BY  
LINDA WOOLVERTON

ORIGINALLY DIRECTED BY  
ROBERT JESS ROTH

ORIGINALLY PRODUCED BY  
DISNEY THEATRICAL PRODUCTIONS

This amateur production is presented by arrangement with Music Theatre International (Europe)  
All authorised performance materials are also supplied by MTI Europe [www.mtishows.co.uk](http://www.mtishows.co.uk)

### Covid Precautions/Advice

Please adhere to the latest Government Covid precautions/advice.  
Thank you for your co-operation. We look forward to seeing you.

**THIS WEEK IN HISTORY...THE LONDON UNDERGROUND OPENS!**

On January 10, 1863, the world's first underground railway service opened with the Metropolitan line between Paddington and Farringdon. The Tube is now used by around 2 million people every day.



**Maths Puzzle Fun page 7 Answer**

Answer:

d) P = 0 Q = 9 R = 0

Explanation:

By trial and error method, P = 0 Q = 9 R = 0 satisfies the values.

The winner from the Christmas edition was Annaelle in Year 7

**Year 8: Netball**

The Year 8 A team played a Netball match against Nonsuch on the 10th January. The students played extremely well and had good connecting passes going down the court. The students worked well getting the ball into the circle. There were some fantastic interceptions and the students worked extremely hard. They won 14 – 4! Well done.



**U15 & U16 Netball v Coloma**

It has been so good to see our students able to play competitive fixtures again! On Tuesday a combined U15/ U16 Squad travelled to Coloma to play their U16 and U15 teams.

The score against the U16 was 3 – 3 with some extremely impressive play and particularly good work in defences as well as good attacking moves in the shooting circle!

Against the U15 team, Old Palace won 3 – 2 so it was a very close match played in wet conditions and with fading light. It was particularly difficult towards the end. Well done then on this '6 – 5' victory!

Squad:

Zino, Krystal, Zara, Grace, Skye, Tahalia, Mia, Bethany and Rebecca for representing the school with pride and for playing well as a Squad.



Classics Department Word of the Week 10/01/22

**AMPUTATE**

From Latin amputat- 'lopped off', from amputare, from am- (for amb- 'about') + putare 'to prune'.  
 "In the end they had to amputate his foot to free him from the wrecked car."