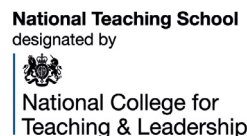


# Penwortham Post



December 2019



## Penwortham Girls' High School

### Penwortham Bypass named by our students

**P**enwortham Bypass has been officially named as 'John Horrocks Way', after a leading figure from the town's history.

Schools in Penwortham were invited during the summer term to ask their students to submit name suggestions for the new Penwortham Bypass.

A naming challenge was also run at Penwortham Girls' High School during the Futures Days in July, as part of the Apprentice Factory Project.

The new name was suggested by Grace and Laura from Penwortham Girls' High School. The students proposed naming the bypass after John Horrocks to remember his work and to educate people who are unaware of the role he played in development locally.

Born in 1768, John Horrocks was a key player in Lancashire's textile revolution, owning several mills and employing thousands of people. John lived in Penwortham and represented Preston as MP. After his death in 1804, his company continued to operate, creating the Centenary Mill on New Hall Lane in Preston, which still stands today.

It was officially announced on Wednesday 11 September at South Ribble Borough Council's cabinet meeting.

County Councillor Keith Iddon, cabinet member for highways and transport, said: "Lancashire is well-known around the world for its cotton mills, so it's fitting that John Horrocks, who lived in Penwortham, will be remembered with our new road".

Well done, girls!



### Welcome to the Autumn edition of the Penwortham Post.



**A**s the festive season approaches, I've devised a 'Twelve Days of PGHSmas' to reflect what has been happening in school during the last few months!

**One** brand new minibus

**Two** new classrooms

**Three** new sports offered as extra-curricular activities

**Four**(th) out of 84 Lancashire Secondary schools for progress, based on our 2019 results

**Five** political parties represented during our recent 'mock' election

**Six** new teaching staff

Year **Seven** will all receive a free book from the English department this week.

**Eight** newly appointed Student Leaders

Record number of Grade **Nine**(S) this summer – 77 in total

**Ten** Lancashire secondary schools supported by PGHS staff since September

**Eleven**(th) of November: PGHS students remembered the fallen on our annual Battlefields trip to France and Belgium

**Twelve** new months of PGHS success to look forward to in 2020!

Other statistics I encountered whilst compiling the above include: 13 school trips this September and £1420.62 raised for charity since the start of term. Overall, not a bad start to the new academic year!

Mrs Karen Pomeroy, Headteacher



## Remembrance Day 2019

Senior students, accompanied by Mr Ramsdale, took part in the Service of Remembrance at the Penwortham Cenotaph on Sunday 10th November.

Our Head Girl, Susannah, contributed to the reading of the names of the fallen from the First and Second world wars, before laying a wreath on behalf of everyone at Penwortham Girls'.

It was heartening to see so many students at the service, both past and present, several of them representing organisations including the Scouts and the local churches.

Mr Ramsdale, Assistant Headteacher



## GCSE Awards Evening

On Thursday 14th November, we welcomed our Class of 2019 at our GCSE Awards Evening to celebrate their success. Prizes were awarded for exceptional achievement, notable effort, determination and progress.

We also awarded a new Soroptimist Award for Community Champion. Thank you to Edwina Grant OBE, Executive Director of Education and Children's Services for presenting our prizes to the girls.



# PGHS News

The following girls received subject prizes and special awards:

## ART & DESIGN

The Trophy for Artistic Excellence  
Charlotte P  
Outstanding Progress and Effort  
Lydia G

## COMPUTING

The Computing and ICT Award  
Imogen H  
Outstanding Progress and Effort  
Sarah A

## ENGLISH

The Enid Eaton Memorial Trophy for English  
Hannah R  
Outstanding Progress and Effort  
Hajhra I

## GEOGRAPHY

The Dunscair Trophy for Achievement in Geography  
Eleanor C  
Outstanding Progress and Effort  
Ella De F

## HISTORY

The Patricia Jones Cup for History  
Caitlin A  
Outstanding Progress and Effort  
Sumaiya M

## MODERN FOREIGN LANGUAGES

The Russell Family Cup for Languages  
Charis B  
Outstanding Progress and Effort  
Jessie W

## MATHEMATICS

The Mathematics Cup  
Emma F  
Outstanding Progress and Effort  
Victoria L

## MUSIC

The Emma MacDougall Trophy for Achievement in Music  
Hannah R  
Outstanding Progress and Effort  
Rose C

## PERFORMANCE, SPORT AND HEALTH

The Hewetson Cup for Outstanding Contribution to School Sport  
Chloe B (PE)  
Emily C (Dance)  
Samrana F (Health & Social Care)  
Outstanding Progress and Effort  
Madeleine B (PE)  
Katy G (Dance)  
Sumaiyah M (Health & Social Care)

## RELIGIOUS STUDIES

Exceptional Achievement in Religious Education Trophy  
Ella De F  
Outstanding Progress and Effort  
Samrana F

## SCIENCE

The Angela Ball Award for Science  
Ellen H  
Outstanding Progress and Effort in Science Combined  
Khadija M

The Dame Sue Ion Physics Award  
Katherine T  
Outstanding Progress and Effort in Physics  
Hawaa M

The Dame Nancy Rothwell Biology Award  
Sana M  
Outstanding Progress and Effort in Biology  
Madeleine B

The Dorothy Hodgkin Chemistry Award  
Charis B  
Outstanding Progress and Effort in Chemistry  
Amirah P

## TECHNOLOGY

The University of Central Lancashire Trophy for Technology  
Katie F (Design Technology)  
Ruby W (Food Technology)

Design Technology: Outstanding Progress and Effort  
Hajhra I  
Food Technology: Outstanding Progress and Effort  
Ellie D

## SPECIAL AWARDS

Headteacher Award for Resilience and Endeavour  
Chloe H  
The Prize for Outstanding Achievement  
Charis B

The Award for Service to School  
Emma F

The Governors' Cup for Excellent Attendance  
Charis B

The Joan Fitz-Gibbon Award for Outstanding Effort  
Nazirah V

The Joanne Sanderson Memorial Trophy  
Jennie S

The Melissa Smith Memorial Trophy  
Maariya F

Community Champion (Soroptimist Award)  
Mimi M





## Retired School Bus Driver returns to PGHS

Jimmy Ashworth returned to Penwortham Girls' High School for a special assembly on Thursday 28th November.

Students wanted to thank him and wish him well. Jimmy transported our students for six years on the 680 school bus service and the girls were very fond of him. Jimmy always greeted our girls with a smile and had a very positive and caring attitude. Jimmy was presented with gifts and he told stories about his 41 years of working with Preston Buses.

We hope Jimmy enjoys his well-earned retirement!



## St Leonard's Christmas Tree Festival

Our Year 7 Craft Club took part in the St Leonard's Christmas Tree Festival at the end of November, creating a fabulous wooly Christmas tree.

Thank you to all students and families who visited the festival and voted for our Christmas Tree. Our Year 7 Craft Club and Mrs Embley have all worked so hard. Well done!

Mrs Cattanaach, Associate Assistant Headteacher and Year 7 RAC



 **Attention all parents!**

**Download the ParentMail App**  
for the best way to pick up school messages

"Great App to compliment the web!  
It's so convenient to have all the  
ParentMail services in my pocket!"

★★★★★

"Works perfectly! Texts, emails & newsletters all  
come through. I can even make appointments  
for parents' evening. Fantastic!"

★★★★★

**FREE  
DOWNLOAD**



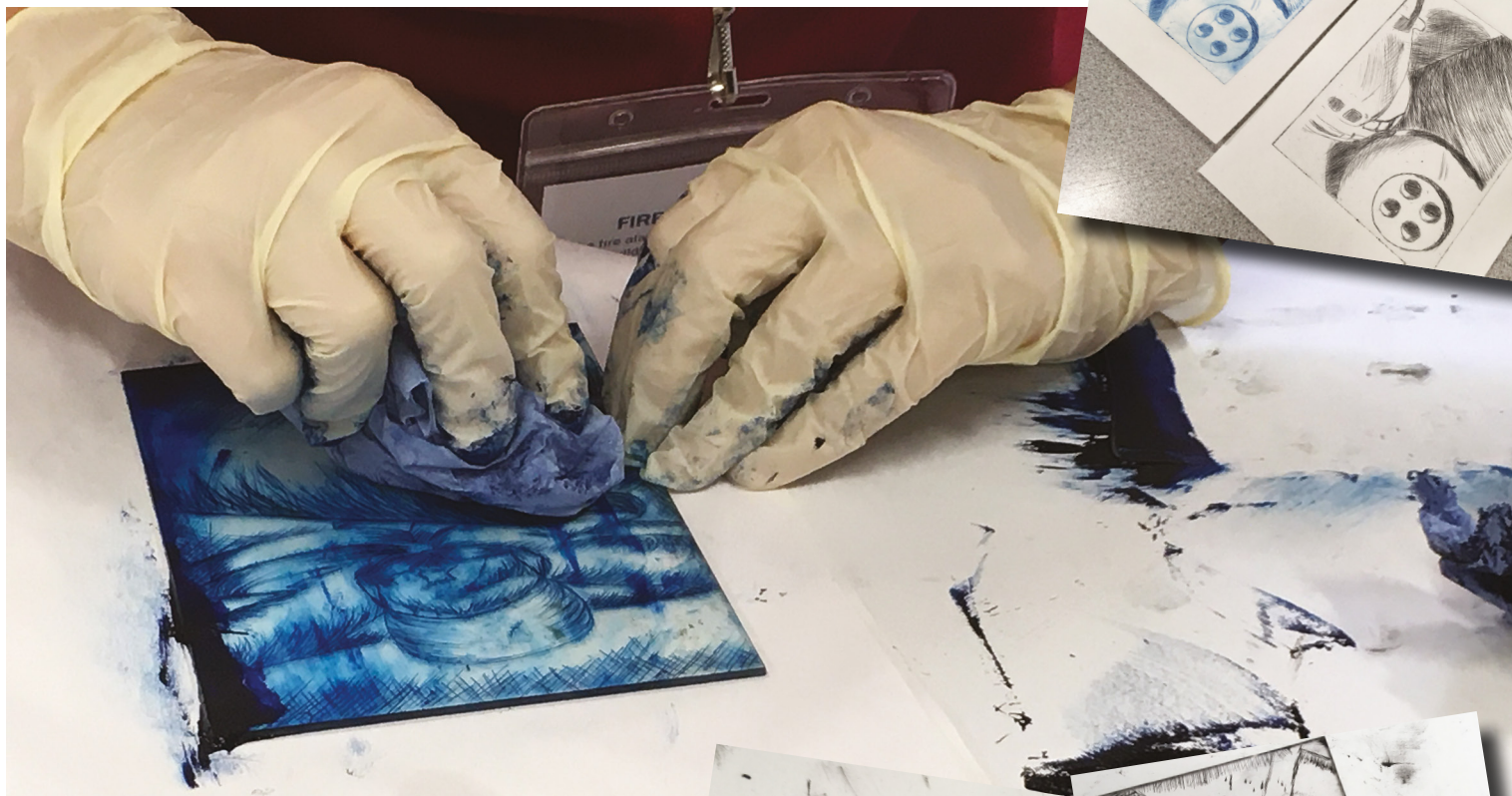
 **ParentMail** 

Please note: If you are not already registered, you will need to register online on the ParentMail website before trying to access the App. Please ask the school office to send you a registration message





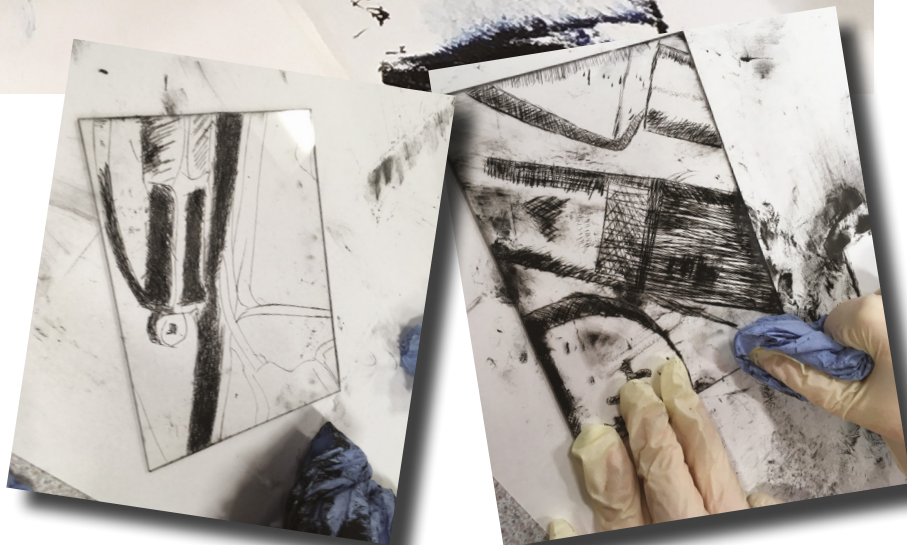
## Art



## Newman College Etching Workshop 2019

**I**n October this term, a group of Year 10 Art students visited Newman College to experience a print making workshop.

Working with clear 3mm acrylic and metal etching tools, students created etched plates for printing. Using the press and a variety of inks, these plates were successfully printed and will contribute towards the Everyday Objects Project carried out in Year 10 GCSE Art & Design.





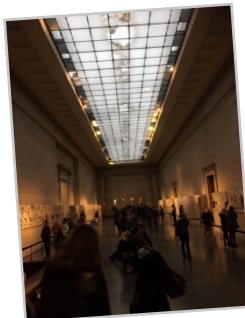
## Art

### CAT Faculty London Residential 2019 – Art & Technology

This year, 20 Key Stage 4 students accompanied Miss Morris, Mrs Freer and Mrs Jennings for the first annual CAT Faculty Residential to London.

During the visit, students experienced the delights of London, which included a 3D printing workshop, gallery visits to the Tate Modern and National Portrait Gallery, a trip around the Victoria and Albert Museum and sightseeing around the British Museum. Our busy schedule also included a stroll down the River Thames and the West End show 'Matilda', which was a delight.

The trip was a wonderful success and plans are already in place for next year's residential.



### Hutton Grammar School Sculpture Creations 2019

As part of the Everyday Objects Project, Year 10 students were invited to Hutton Boys' Grammar School to investigate a variety of clay techniques.

We looked at the work of ceramicist, Louise Daneels and created a series of 'playful' mini clay sculptures. By shaping the clay and using a clay needle tool, students were able to add fine details to their responses. Once the clay is leather hard, these clay pieces will then be fired in a kiln and will be ready for decorating in the New Year.

Miss Morris  
Lead Teacher  
for Art





## Computing

### Computing Key Stage 3

**T**his term has been a busy term for our Key Stage 3 Computing classes.

Year 7 have been learning about all aspects of online safety, including how to be safe when using social media and also learning about viruses and how they can prevent getting viruses on their devices. The girls then produced a group presentation. There were some fantastic presentations and well-prepared drama pieces. We are now learning about computer programming, exploring all the elements of scratch, and this is going to end with the girls designing and creating their own scratch game, including variables and a variety of scripts.

Year 8 have been looking at how to use the internet and the different search techniques available to them. They have learnt about primary and secondary research and have used these different skills to create a leaflet all about aliens. There have been some well-planned and created alien leaflets. Well done, girls! We are now learning about binary, hexadecimal and python programming techniques. Next term will see the girls being creative by creating a stop frame animation. I look forward to sharing this work with you in the new year.

Year 9 have created a magazine using Publisher and have been looking at primary and secondary research skills. There have been some amazing magazines planned and created. We are now learning about python programming and building on the skills learnt last year. The new year will see the girls looking at technology and future technologies. They will be expected to plan a new piece of technology to make lives easier.

### GCSE Computer Science

**Y**ear 10 have had a fantastic start to the course and have been learning about different algorithms, including flowcharts and how to write pseudocode.

We are now learning a variety of programming techniques using python.

Year 11 have worked hard preparing for their mock exams. We are now in the process of completing the NEA and this will continue into the new year. Well done, girls! Keep up the hard work!

### BTEC Creative Media Production

**T**his term has been the first for the Creative Media Production course and the girls have had a busy term learning all about the different media sectors (audio/visual, publishing and interactive).

They have completed their first piece of coursework where they have had to compare different media products, looking at how and why the purpose and audiences might have changed over the years. We are now looking at camera techniques, lighting and sound and how they all work together to make a successful media product.

The girls will be using these skills in the new year to start to plan and create their own mini media product. I look forward to sharing this with you in the new year.



Mrs Smith, Curriculum Leader for C.A.T. Faculty

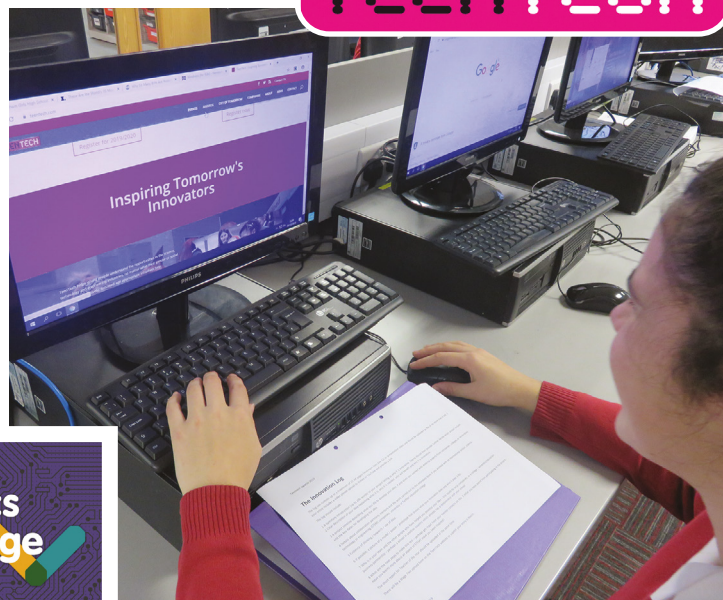
## Technology



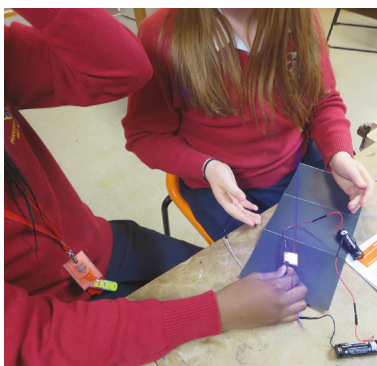
### Stem Club

The members of our STEM (Science, Technology, Engineering and Maths) club have now started to focus on a variety of national competitions and girls from Year 7-10 have been attending each week in order to research ideas that solve specific problems.

The girls in Year 7 are looking into solutions to the global energy crisis and are considering what the cities of 2050 will look like. This is all part of the competition Bright Ideas challenge; the winners of which will win £5000 for their school as well as a VIP STEM experience for the team. So far, they have been testing different electronic circuits using LEDs and buzzers, to see how these can be powered using renewable sources such as solar panels. They have also started to research problems facing the cities of the future such as pollution, energy efficiency, food shortage and are already beginning to consider some potential solutions that they could develop into a final idea for the competition.



Year 8 and 9 have been programming a robot as part of the 'Tomorrow's Engineers' robotics challenge. The team will have to design, build and test their robot to complete a series of tasks that link to real world engineering problems such as how to deliver humanitarian aid. As well as this, they will have to create a presentation based on the title 'How could engineers help future-proof the world?'



The girls in Year 10 are also starting the research phase of another national competition, 'Teen Tech'. As the competition explains, 'Are you an innovator? Do you have an idea which could make life easier, simpler or better? We want you to use your imagination to think creatively. This is a chance to ask 'what if?' or even build a fun example of what this might look like.' The students are again looking into possible solutions to real world problems and aim to use STEM to come up with original and exiting ideas.

We look forward to seeing the final projects as they enter the regional phase of each competition in the spring term.

Mrs Gornall, Technology Department



## Technology

### Design & Technology trip to the Science and Industry Museum

In December, a group of Year 8 students visited the Science and Industry Museum in Manchester to explore a range of new material and techniques used throughout Design & Technology.

As we visited the experimental area of the museum, students were able to have a go at lifting a real life MINI in the air through the use of gears and weights, explore a variety of smart materials and were able to understand the impact of recycling and the use of non-renewable fuels on the environment. We then observed a demonstration on how cotton was manufactured and how it has changed from today including health and safety and the working conditions of the factory workers. This is all great knowledge and understanding which leads perfectly into GCSE Design & Technology.

In the afternoon, the students took part in a workshop on **Materials and Design**. This introduced them to a range of new and exciting materials which students had the opportunity to explore and look at. Following on from this, they were given the contextual challenge of 'End of days' where the Earth is toast and 10-foot cockroaches rule. Students has to design an apocalypse-proof super-vehicle to save the day.

Each group provided some FANTASTIC ideas and presented their ideas to the judges (the teachers!!) beautifully. Well done, girls! You were a credit to the school!

Mrs Freer, Technology Department



## Year 8 Faraday Challenge

On Thursday 7th November, we hosted the Faraday Challenge here at Penwortham Girls' for our students and 3 other local High Schools.

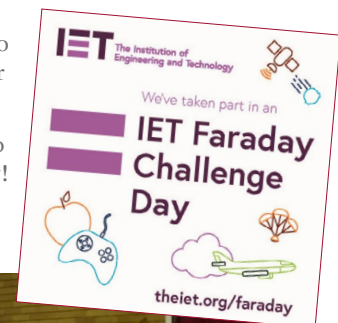
The Faraday Challenge is run by the IET (The institution of Engineering and Technology) and this year it was sponsored by Airbus. We entered 2 teams of Year 8 students and they had to work together to help solve one of the problems given to them by airbus.

Students worked as a team to come up with a creative solution and prototype, which they then had to present to all the other schools and the judge Mick, from the IET. The students did this professionally and with confidence. This was then followed by a series of questions which resembled those from Dragon's Den! Both teams handled this well and were able to work as a team to represent the school impeccably.

I am pleased to say that one of the teams from PGHS (Team 2) , won the competition. The team were awarded a trophy and each member of the team received a gift voucher. They were congratulated on their innovative idea and the way in which they worked as a team to solve the problem. Fingers crossed that we go through to the next round, which is later in the Summer term.

Well done to all the girls who took part - it was a great day!

Mrs Freer, Technology Department



## English Residentials

There's so much more to English than we can cover in the classroom, so the English department is always keen to get out and about and see how words have the power to amaze, entertain and captivate.

Back in October, we set off with a group of Year 8 and 9 students to Harry Potter Studios where J.K. Rowling's magical books were brought to life. Students had the opportunity to see many of the original sets, props and costumes and could get inside some of the sets including Gringott's Bank, Diagon Alley, sections of Hogwarts and Privet Drive. It is incredible to think that this fantastical world was brought to life over 20 years ago, with the first draft written in a small café in Edinburgh – J.K. Rowling was a struggling single mother at the time and would work in the café so that she didn't have to heat her home.

Students enjoyed an "all you can eat" Pizza Hut buffet (I know I did) and a night in a Premier Inn. This was followed the next day with free time in Covent Garden and then a trip to the theatre – a matinee performance of "School of Rock". If you've never had chance to see this show I cannot recommend it highly enough. It is an incredible, high energy show that has the audience on their feet for the finale. Remarkably, all the music is performed by the young cast – it is phenomenal. This trip was so successful that it will run again next year; over 50 students have already reserved their place!

At the end of this term, we headed back to London with a group of Year 11 students. This time we enjoyed a performance of "The Woman in Black" – appropriately on Friday 13th - and the following day a matinee of "The Lion King". Students were given the opportunity to spend some free time shopping for presents (hopefully for their generous parents) in Covent Garden, which always looks beautiful when decorated for Christmas.

Mrs Woodhouse, Curriculum Leader for English





## English Department News



### Merry Christmas Year 7 from the English Department

**S**adly, hundreds of thousands of children in the UK do not own a single book at home.

Research shows that children who own books are six times more likely to read above the level expected for their age. Reading fluently doesn't just help students with English, but develops their general knowledge (essential for History, Geography and RE) and builds problem solving abilities (vital for Science, Maths, and Technology). In fact, research shows that reading makes you a nicer person as it helps increase empathy and students' ability to understand different cultures and traditions.

Naturally, the English department don't need any convincing about the power of reading! This Christmas we are helping to spread the magic of books by gifting every student in Year 7 with a book to read over the holidays. This is theirs to keep, but we would like to see students share the books they've been given by swapping books with their friends, writing reviews and sharing their opinions in English in the New Year.

Books are the number one item on the English department's Christmas list but maybe this is something you'd consider buying for your daughter? We have a list of recommended reads on our website but here are a few of our suggestions...

**'Shell' by Paula Rawsthorne**

**'The Extinction Trails' by S M Wilson**

**'Outwalkers' by Fiona Shaw**

**'The Disappearance of Timothy Dawson' by Nathan Parker**

**'Girl in the Window' by Penny Joelson**

**'How to write a Love Story' Katy Cannon**

**'The Loneliest Girl in the Universe' by Lauren James**

Many of these authors have been in to school to visit us over the past few years. As with anything, please check that it is suitable for your daughter before purchase, some of these are a little more mature.

Mrs Woodhouse, Curriculum Leader for English



### Thinking ahead

**T**his term, the English department has been supporting Year 10 and 11 students in thinking ahead – not just to College and their post 16 options but further ahead than that with visits to two Universities.



In November, a group of students headed to an "English in Action" event at Warwick University held in the Arts Centre – one of the largest Arts centres in the UK. Students were given a taste of University life with a series of lectures on different aspects of the GCSE English Language course, including one from an adviser to Ofqual. The day ended with a reading and question and answer session from Owen Sheers – an internationally renowned poet who also features on the English Literature poetry anthology.

Later in the month, a group of students travelled to Edge Hill University (much closer to home!) Here, they participated in a number of English writing workshops and were also able to gain a flavour of Uni life with a campus tour. In the afternoon, students enjoyed a production of "A Christmas Carol" in the Edge Hill Arts Centre – a great opportunity to enjoy one of the English Literature set texts.

Both of these Universities are rated highly for the quality of their course, particularly English, so hopefully these visits gave students food for thought about their future.

Mrs Woodhouse, Curriculum Leader for English

# Geography Department News

## **Geography News**

**A**nother hugely impressive term is coming to a close, with students across all years demonstrating their Geographical knowledge, skills and dedication to the subject.

A particular well done to our Year 11 GCSE Geographers; it has been a long term with a period of Mock exams right in the middle. The Geography Mock results were pleasing overall, and we look forward to doing some detailed performance analysis after Mock Results Day.

All three Year 10 GCSE classes have bedded in really well; the standard of work being produced is amazing and as a Department we are already feeling confident about this cohort.

In the lower school, Year 7 students are gearing up to produce their Fantasy Treasure Maps, a highlight for many PGHS students when they look back on their time here. Work hard on this Year 7 and really show off your cartography skills. (Please note – these assignments are due in the end of week 1/start of week 2 of next half term, so to avoid the need to complete them over the festive season...but please go ahead if you want to!)

Year 8 students have completed an interesting unit on Geology called 'Buried Treasure', highlighting the environmental impacts that mining and quarrying can have.

Year 9 are coming to the end of a unit on Energy Resources and are working on an energy audit of their homes in an effort to cut both carbon footprint and bills. They have also given some very passionate speeches on the need to massively up our efforts when it comes to slowing climate change; some activists of the future!

There are Christmas Geostar tasks set across all lower school year groups and you can find details on class charts – if you complete one, please ensure you pass it on to your teacher so you can receive your merits.

The Department Christmas tree has been dusted down and we are building up an impressive collection of decorations made out of recycled materials – if you made one this year don't forget to collect it before we break up.

Have a great holiday and if you are celebrating Christmas, don't forget to ask Santa for an up to date Ordnance Survey map and make sure you recycle all that packaging. Merry Christmas from Mr Bowles, Mr Ward and Miss Wignall – Ho Ho Ho!

Mr Bowles, Curriculum Leader for Geography



## **Where's Earthy?**



MERRY CHRISTMAS!

Ask a parent to email your answer to Mr Bowles.  
([g.bowles@penworthamgirls.lancs.sch.uk](mailto:g.bowles@penworthamgirls.lancs.sch.uk))



### Remembrance Visit to Belgium and France

**I**n November, 42 Year 8 and 9 students returned from a very memorable and poignant Remembrance weekend visit to Belgium and France.

Students set off from school at 10pm on Thursday 7th November and made the overnight journey to Albert, France, via the Dover to Calais ferry crossing. The students visited the Vimy Ridge Memorial, Thiepval, Lochnagar Crater and Newfoundland Park, enriching their understanding of trench warfare and the battlefields of the First World War. Students developed their knowledge of the first day of the Battle of the Somme and visited the gravestones and memorials of local soldiers that they had researched.

The following day, the tour continued to Ypres, Belgium, with students visiting the site of the Christmas Truce in 1914. This was followed by a visit to the muddy preserved trenches at Sanctuary Wood and the Advanced Dressing Station at Essex Farm. It was at Tyne Cot that the scale of the British losses during the Battle of Passchendaele really sank in as students walked amongst the 11,000 headstones, many of which have no inscription. It was a particularly emotional and poignant visit for Year 9 student, Leah B. She had researched her great, great uncle's contribution during the First World War and his name was one of those etched onto the Tyne Cot memorial. In the evening, the students took part in the Last Post Ceremony at the Menin Gate, with Ruby R and Olivia S laying wreaths on behalf of the school and the Friends of Penwortham War Memorial.

On Sunday, students travelled to the magnificent medieval city of Bruges, where they had an entertaining visit to the Chocolate Museum as well as the Medieval Torture Museum! Students were also given free time to explore the city centre, with many taking the opportunity to purchase Belgium's world famous chocolate! In the evening, a game of ten pin bowling was enjoyed by all in the hotel, with Olivia S achieving the highest score of the evening. The following day, students made the long journey back to Penwortham, arriving at school at 7pm.

Throughout the duration of the visit, the students represented the school magnificently, impressing hotel and ferry staff with their maturity and behaviour. They were a real credit to their families and school. I would like to thank the staff members who gave up considerable time to help supervise the trip: Mrs Woodhouse, Mrs Snowdon, Mr Bowles and Mr Bretherton.

Mr Herbert  
Curriculum Leader for History



## Learning Support Department

During the last week of term, the Learning Support Department and some of our students have been holding a Christmas stall to raise money for The UK Sepsis Trust.

Sadly, one of our girls recently lost her mum to sepsis and so The UK Sepsis Trust is a charity with a special connection.

The UK Sepsis Trust was founded in 2012 by world-leading sepsis expert, NHS consultant Dr Ron Daniels BEM. They work hard to raise awareness of sepsis, with the aim of ending preventable deaths and improving outcomes for survivors. Their “Just ask: Could it be sepsis?” campaign has already helped to raise sepsis awareness among the general public by 28% and they believe that earlier diagnosis and treatment across the UK, could save up to 14,000 lives a year; making it a very worthy cause to raise money for!



As we go to press, the girls are busy making a range of Christmas crafts that will be available to buy at lunchtime on Monday 16th and Tuesday 17th December. Some that are already made are pictured here but the rest are still in production. There will be all sorts to choose from, such as Christmas tree bookmarks, pom pom Christmas characters and tree decorations, as well as plenty of Christmas themed baked goods.

We will be back in the new year to let you all know how much the stall raises, but in the meantime the Learning Support Department would like to wish you all a very merry Christmas and we hope that you enjoy the holidays.

Miss S Parker  
Learning Support Department

## Maths Department News

### Celebrating Mathematical Achievement – Autumn Term 2019

The term has seen much to be celebrated within the Mathematics Department.

Both students and teachers have readily engaged with our New Learning Journeys and a higher proportion than ever, are working on our Higher pathway. The department has also been very busy outside of the classroom and there is plenty to celebrate so far.

### Royal Institution Mathematics Masterclasses 2020

For the second year in a row, students from Penwortham Girls' High School have been invited to attend the prestigious Royal Institution Mathematics Masterclasses held at Lancaster University across six weekends in the New Year.

To be invited back for a second year is a recognition of the high regard held for our students by the Mathematics department at Lancaster University.

Also, Mr Rhodes and Mr Cheal have been invited to assist at a number of the masterclass sessions further broadening out the contacts that the school has with institutions for higher learning.



**The Royal Institution**  
Science Lives Here

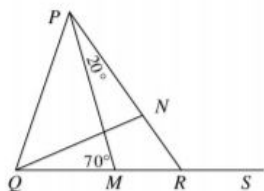


## Maths Department News

### United Kingdom Maths Trust Challenges 2020

Following the usual success of the UKMT Maths Challenges in Years 7 to 10 in 2019, the department has decided to enter more students for the events this year.

In the diagram  $\angle RPM = 20^\circ$  and  $\angle QMP = 70^\circ$ . What is  $\angle PRS$ ?



A  $90^\circ$     B  $110^\circ$     C  $120^\circ$     D  $130^\circ$

#### ADVANCE DATES FOR YOUR DIARIES:

UKMT Intermediate Challenge (Year 9 and 10)  
– Thursday 6th February 2020

UKMT Junior Challenge (Year 7 and 8)  
– Thursday 30th April 2020



United  
Kingdom  
Mathematics  
Trust

### SMART Exchange

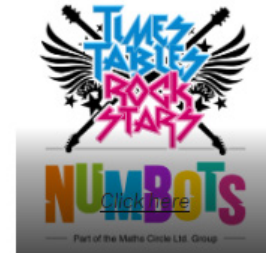
Mrs Bennett has won first prize in the SMEX UK (SMART EXCHANGE) competition.

Mrs Bennett uploaded 73 mathematics lessons to the SMART Exchange website, where teachers all over the world can access her lessons. Louise Haines Community and Advocacy Manager for SMART Technologies (GB) Ltd quoted, “a truly awesome amount, I felt she deserved the first prize.”

Mrs Bennett will win a full set of SMART cuddly monsters.  
The Maths Department

### Maths Week England 2019

Students from Years 7, 8 and 9 were invited to take part in the activities to celebrate Maths Week England 2019 which ran from 11th to the 15th November.



The students entered a number of national challenges and were against students from all across the country. The competition was fierce!

The students' efforts have found themselves worthy of national attention from the company who run the Manga High website, who ran one of the competitions. I am pleased and proud to report that a representative of the Manga High website is coming into the school to recognise the students for their achievements. Truly a celebration of student effort and endeavour!



## European Christmas Choir

**M**embers of Year 7 and 8 have been taking part in a European Christmas Choir and have been learning popular Christmas songs in both French and German.

Miss Gelder and Mrs Raine have been practicing the pronunciation of the words and the girls have been very enthusiastic in their performances of Stille Nacht and Douce Nuit.

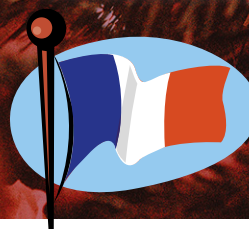
*Douce nuit Sainte Nuite  
Tout est calme plus de bruit  
C'est Noël et là-bas dans le ciel  
Une étoile d'un éclat irréal  
Brille au loin sur le monde  
Comme un beau rêve infninit  
Douce Nuit Sainte Nuit  
Il est né à minuit  
Dans l'étable au milieu des bergers  
Et depuis l'univers a chanté  
C'est Noël c'est Noël  
Que la Paix soit éternelle*

*Stille Nacht, heilige Nacht,  
Alles schläft einsam wacht  
Nur das traute hochheilige Paar.  
Holder Knabe im lockigen Haar,  
Schlaf in himmlischer Ruh!  
Schlaf in himmlischer Ruh!*

*Stille Nacht, heilige Nacht,  
Hirten erst kundgemacht  
Durch der Engel Halleluja,  
Tönt es laut von fern und nah:  
Christ, der Retter ist da!  
Christ, der Retter ist da!*

*Stille Nacht, heilige Nacht,  
Gottes Sohn, o wie lacht  
Lieb' aus deinem göttlichen Mund,  
Da uns schlägt die rettende Stund'.*

*Christ, in deiner Geburt!  
Christ, in deiner Geburt!*





# Performance, Sport & Health Faculty Department News

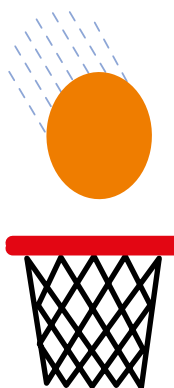
## PE Department

### Netball

Our Year 8 and 9 netball players played against Balshaw's High School. They smashed both games and had an incredible set of results which have been added to the South Ribble Netball League.

The Year 9 score was 14-10 and the Year 8 score was 12-9.

Year 9 Players' player: Freya A  
Year 9 Coach's Player: Morgan W  
Year 8 Players' Player: Olivia W  
Year 9 Coach's Player: Olivia S



### Under 16s Badminton

Our Under 16s badminton team won the South Ribble Championships in November and qualified to represent the South Ribble district at the Lancashire Finals at Rossall School in Fleetwood on the 10th December.

The team players were: Tegan, Katie, Freya and Natasha. They played a variety of singles and doubles matches and they managed to win 3 games against other schools in Lancashire and went through to the Shields round. They lost their final game against St. Bedes and were positioned 6th overall. Well played, girls!



### Senior Citizens Christmas Party

Our annual Senior Citizens Christmas Party took place on Thursday 12th December.

Our girls performed dance, cheerdance and gymnastic musical productions. Rehearsals took part every lunch and break time this half term. All the girls worked really hard and our Senior Citizens thoroughly enjoyed the performances.



### Year 7 and 8 Sportshall Athletics

On the 3rd of December, our Sportshall Athletics teams competed at Lostock Hall Academy in the South Ribble Championships.

Our Year 7 team won the competition and are now through to the Lancashire Finals. Despite excellent effort our Year 8 team came 3rd with only a few points behind Balshaws' High School. Team athletes were dedicated to their fielding events and exhibited excellent teamwork in relay races. A superb team effort! Well done girls, and good luck to Year 7 in the next round!

Year 7 athletes: Alice, Libby, Sophie, Bethany, Lottie, Savo, Caitlin and Eshal.  
Year 8 athletes: Olivia, Molly, Sanuli, Sian, Enya and Tilly

Miss Shahi, PE Department



## Music Department

### Discover Creative Careers!

Sixteen Year 9 students were lucky enough to have the opportunity to take part in the national careers initiative, 'Discover Creative Careers' in November.

The girls visited the Harris Museum and Library and were able to ask questions to a panel of guests, each with a different creative career. The creative sector is one of the largest growing employment sectors in the UK at the moment and the point was made that these students could well get jobs which have not yet been invented! Students also had the chance to 'get creative' and were asked to take a photograph somewhere in the museum which would entice young people in. Once their photograph had been taken, they then had to create a tweet which would accompany this. As always, the girls were impeccably behaved and received many positive comments about their fantastic photographs, work ethic and conduct! Well done, girls!



# Performance, Sport & Health Faculty Department News

## Music Department

### String-spirational!

Students in Year 7 were treated to a fantastic assembly by Mrs Mulholland.

Mrs Mulholland is our string teacher and teaches violin and cello. She performed to the students and also provided them with the opportunity to have a go! Music tuition is a fantastic opportunity for your child to not only learn a musical instrument but develop her resilience and self-confidence. If you would like your daughter to take this opportunity please email [a.cattanach@penworthamgirls.lancs.sch.uk](mailto:a.cattanach@penworthamgirls.lancs.sch.uk) so she can arrange this for you.



### GCSE Music Concert

GCSE Musicians hosted a concert in October to showcase their talents.

For Year 11 students this was an opportunity for them to practice performing their first piece of coursework, whilst for Year 10 students it was an opportunity to perform in public and a first performance in public for some! The school choir also made a guest appearance to perform the song 'Beautiful'. All students gave their very best, despite some nerves, and the Music Department were extremely proud of them all. The evening raised £210.99 for Young Minds charity and the Soroptimisses. We look forward to a second concert of the season in February.



### Open Mic for Children in Need

This year for Children in Need, the Music Department decided to enrol the creative talents of our students and hosted our first Open Mic lunch!

Students from Years 7-11 took to the stage to perform their favourite pieces to a packed hall where the audience gave generously to charity. The atmosphere was fantastic with the girls supporting each other as well as Children in Need. This event raised £162.50 for charity and we look forward to holding another in the near future.

Mrs Cattanach, Curriculum Leader for Music



# Science Department News

## Women in Science

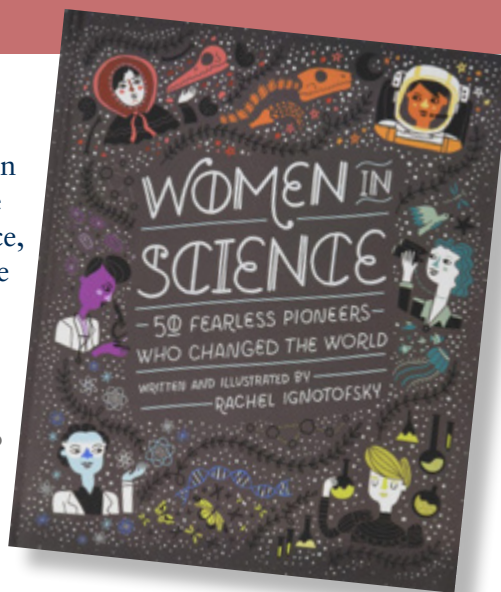
The Science department is starting its own subject-specific library to encourage the girls to read more widely around Science, broaden their knowledge and deepen their love of reading.

During their time at PGHS, students study topics from across the scientific spectrum, from genetics to space science and the chemistry affecting our environment. As the library grows, it will give students the opportunity to delve deeper. They may wish to find out why European royals are so likely to be haemophiliacs, explore the weird and wonderful world of quantum mechanics or find out why travelling close to the speed of light could make you appear younger than your friends.

Research has shown that reading for pleasure is important and a paper for the OECD concluded that children who read for pleasure more than once a week do better in maths, vocabulary and spelling tests. All of this is in addition to the increased scientific knowledge that students will acquire.

The Year 10 Science ambassadors, Lily and Evie are going to run the library from room 46. If students have any questions about the library or any suggestions of books to add to the collection, please feel free to speak to the Science ambassadors.

Mr Coogan



## Year 9 Numeracy

Maths skills are now included in the assessment of all GCSE Science qualifications.

There will be 10% Maths included in Biology, 20% of Maths in Chemistry, 30% of Maths in Physics and 20% of Maths in Combined Science.

To ensure that our students are adept at these skills, we teach a numeracy topic at the start of Year 9. In the first half term, the girls studied decimals, standard form, area, surface area, volume, ratios, fractions, percentages, significant figures, mean, mode, median, range, estimates, sampling, probability, conversions and prefixes.

To support their learning in class, each student has a Maths skills workbook which is used for homework and is also a useful revision resource for their assessments this year. This book will be a vital resource and will aid their GCSE revision and preparation.

To further enhance their learning, in most lessons Year 9 are being shown GCSE questions which allow them to become familiar with the style of GCSE questions and to prove they are not as daunting as they think.

Here is an example – can you answer this? Convert 280  $\mu\text{m}$  to mm.

Mrs Goodwill

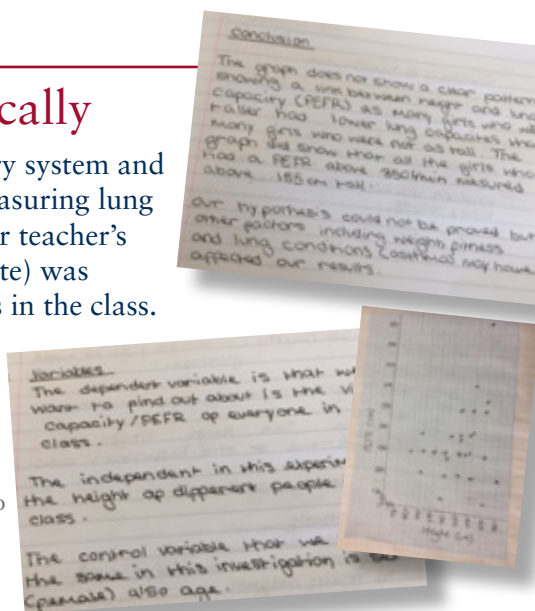
## Year 7 Working Scientifically

After learning about the respiratory system and discovering different ways of measuring lung capacity, 7Sc3 observed that their teacher's lung capacity (Peak Expiratory Flow Rate) was significantly greater than any of the girls in the class.

The class identified possible variables that could affect lung capacity, formulated hypotheses, planned and then carried out an investigation to test into height and lung capacity.

Hopefully the Year 7's budding investigative skills will inspire some of the girls to develop into Scientists of the future and help them to make landmark discoveries.

Mr Knee



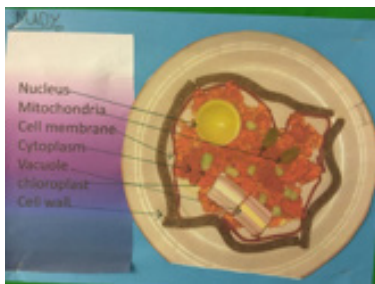
## Science Department News

### Cell Models

**7**SC6 have recently learnt about the structure of cells.

The students each made an animal or plant cell model using sweets and jelly.

The first task was to decide which sweet or jelly they could use to represent the different parts of their cell model. They each had to explain why they had made their selections in a peer discussion.



They then made their cell models and labelled them, using labels that they had typed and printed themselves without the use of their books.

These are now displayed on the wall in their Science room as a celebration of their efforts and high standard of work.



Other Year 7 Science classes have also been extremely creative in designing and making cell models for homework. These range from cell cakes, decorated biscuits, cardboard models and many more ideas. Every year there is always something new!

This is one of this year group's favourite tasks and it is a great way to help them learn about the cell, which is an important basic concept of Biology and links to so many other topics. Plus they get to eat them after too!

Mrs Cahill

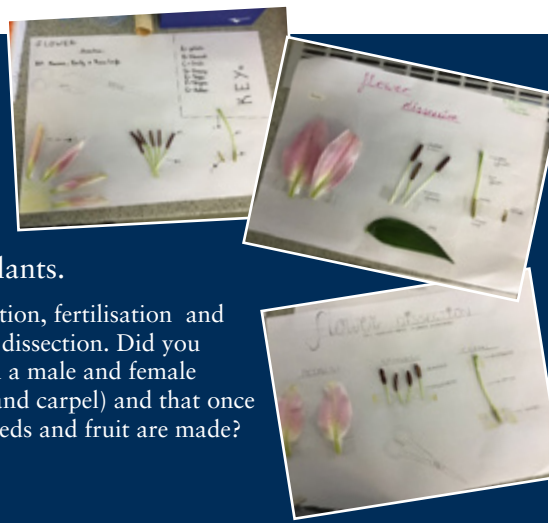


## Ecosystems

**A**s part of the topic "Ecosystems", Year 8 have been looking at flowering plants.

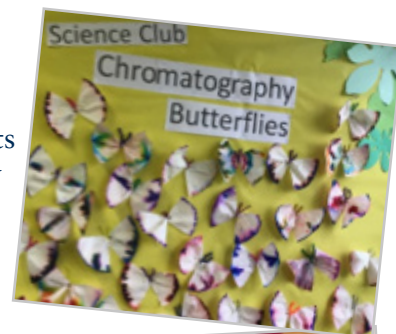
They have explored pollination, fertilisation and have taken part in a flower dissection. Did you know that plants have both a male and female reproductive part (stamen and carpel) and that once fertilisation happens, the seeds and fruit are made?

Mrs Honeyman



## Science Club

**T**his year, Science club has started off with a bang! A large group of keen Scientists have been attending every Monday lunch time to take part in a wide range of fun and exciting Scientific experiments, investigations and challenges.



So far, students have created and raced balloon rockets; explored the wonders of invisible inks; used the chromatography technique to create butterflies; had some fun making multi-



coloured slime; learnt a technique to create their own sugar crystals and have taken part in a STEM challenge to create the highest spaghetti tower. Science club is open to all Year 7 and Year 8 students. Anyone wanting to attend can just turn up and get involved on Monday lunch times at 12.45pm.

Miss Forrest



# Religious Education and Community Studies Department News

## RE at PGHS this term

One of the highlights of this term in RE has been getting to know the Year 7s better through the 'show & tell' of their sacred objects.

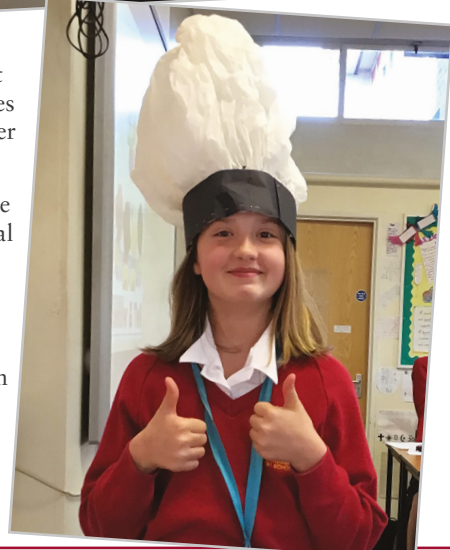
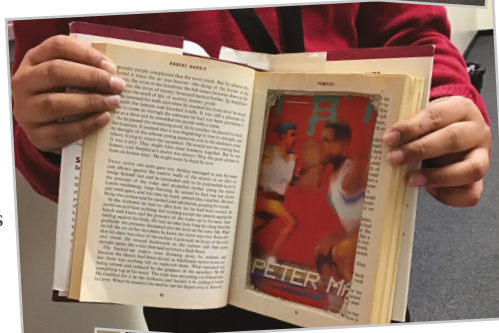
Every student had to bring in an object and spend 30 seconds explaining why this was special to them. It was great to learn all about the girls' hobbies, religions, cultures, families and memories.

Erin shared with us her very well-loved teddy bear. Miss Brooks was shocked to hear that he was 150 years old, making him the oldest guest to visit PGHS! This was clearly a very sacred object to Erin's family and I'm sure he'll be passed down for another 150 years through the family.

One of the most unique objects belonged to Maryam B who brought in a secret hiding place, which was disguised as a book. It was lovely to hear that this was a sacred gift her Mum made for her and now she uses it to hide small gifts and surprises for her Mum.

Ellie's object was not the most expensive or fancy item but it has huge sentimental meaning to her, which is what sacred objects are all about. This chefs hat was made and worn by Ellie during a Primary school performance and inspired her to work towards a career in acting, with a focus on chef roles!

Miss Brooks  
Religious Studies Department



## Soroptimist News

2019 has been a very successful year for the Soroptimisses, completing a vast range of activities, raising a record amount of money. As well as this, there is a rapid amount of members joining.

In November, we got together with the rotary club to participate in a project called 'Wrap Up Lancashire'. We managed to collect an outstanding amount of clothes as a school, which will help many homeless lives. We were really motivated by Miss Brooks' assembly, where she shared the tragic news story of the homeless man who froze to death in Birmingham. We really hope that one day, when we are walking through city centres such as Manchester and Preston, we can see homeless people's lives better through our clothing.



## Soroptimist Christmas Special

On the 1st day of Christmas, Soroptimisses gave to the world...

- 1 Lucky dip
- 2 Spooky walks
- 3 Sponsored girls
- 4 Toilets twinned
- 5 New members from Year 11
- 6 Bake sales
- 7 Ceremonies
- 8 New members from Year 8
- 9 New members from Year 9
- 10 Homeless lives saved
- 11 Fundraising events
- 12 Bags of clothes (per year group)

By Louisa T and Hannah N



## RE in the World this Week:

Although Christmas is quickly approaching and many of us will be buying presents, it is important to not lose sight about the religious history of Christmas and how it became a national holiday.

Christmas actually means 'Christ's Mass' which means the celebration of Jesus Christ who Christians believe to be God on earth. The annual event celebrates the birth of God's one and only Son.

However, December is not just a time for the widely known Christian festival of Christmas. There are numerous ancient religious traditions which are celebrated in December, including one belonging to another one of the main religions of the world: Judaism. They call it Hanukkah which translates to mean dedication. The festival commemorates the Jews' struggle for religious freedom. Hanukkah gained its famous nickname – "the festival of lights" – due to the continuous lighting of 8 candles over an 8 day period. This represents the Hanukkah miracle of the candle which stayed lit for 8 whole days after the Jews defeated the Maccabees in a 3 year war to represent God's love and pride in the Jews.

Interestingly, Jesus himself was a Jew and would have celebrated Hanukkah during his life time. The Jewish people do not believe that Jesus was the Messiah or the Son of God so this separated Jesus' followers from the Jews and thus Christianity was born.

When you learn about different religious festivals, you begin to notice them all around us in the world. Here are a couple of suggestions of films, TV programmes and books you could watch or read over the Christmas holidays about Christmas or Hanukkah.

**TV SERIES:** Friends Series: 10 Episode 1: "The One with the Holiday Armadillo"

**TV CHANNEL:** 4 Programme: "Secret life of children at Christmas"

**FILM:** "Christmas Grace"

**BOOK:** "Your People Shall Be My People: How Israel, the Jews and the Christian Church Will Come Together in the Last Days" - Author: Don Finto

By Jessica B & Ella H



## Governors

**T**his term has been, as usual, busy and long! Governors have met for training, as well as three times in committee meetings.

We have jointly reviewed the summer's exam results which we were extremely pleased with; they show continued outstanding progress for all groups of students. They are testament to the positive working relationship between staff, parents and students; when all work together, the sky's the limit! The Awards Evening in November was, therefore, a very enjoyable and successful evening. We also held another very successful Open Evening and met many girls eager to join our community!

As a governing board, we have made some changes; we have increased our number to 17 and reorganised our meeting structure to focus on changing national and local priorities. This means we now have vacancies for two parent governors. As it is so difficult to convey what is involved, we will make time available to speak with interested parents before they decide whether to put their names forward.

Look out for mailings early in January! We are excited to include new members from a variety of backgrounds.

As I mentioned last term, governors focussed on parent voice and I gave an overview of the positive results in the summer term newsletter. This term, I chose to focus on staff voice, including staff wellbeing and staff workload. There was too much information to include in the newsletter so I hope you read the additional news item I sent out. As part of our role as governors, we need to reassure ourselves that, as well as being an outstanding school on paper, our staff, parents and students are happy with our provision. I was extremely proud to publish such positive results and I trust you were happy to read them also.

As our term comes to a close, on behalf of the governing board, I would like to wish all our friends and families, staff and students a very restful holiday period!

Ms Lorimer Russell-Hayes, Chair of Governors



## School App

**O**ur school app is available to download from your iOS or Android device from Apple's App Store or Google Play.

Just search for 'School Alerts' and once downloaded type 'Penwortham Girls' High School'.

You'll get 'at a glance' updates for news stories, forthcoming events, important reminders as well as a whole host of other content.

We hope you find this app useful. Please let us know if there is anything else you would like to see on the app.

Email [m.murray@penworthamgirls.lancs.sch.uk](mailto:m.murray@penworthamgirls.lancs.sch.uk)

Android Phone -

<https://play.google.com/store/apps/details?id=com.concept4.standard>

iPhone -

<https://itunes.apple.com/us/app/school-alerts/id1151384667?mt=8>



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