



July 2022



**Artsmark
Gold Award**
Awarded by Arts
Council England

Valedictory Dinner 2022

The year 11 Valedictory Dinner took place on Tuesday 28th June at Barton Manor Hotel. The evening was a great success. The students all really enjoyed it and certainly threw themselves into a good boogie on the dance floor!

Arrivals at Prom are always spectacular and this year was no exception. It was great to see them all looking so amazing and I dread to think what time preparations had begun earlier in the afternoon (or morning!). Mr Dever was on hand to snap some amazing pictures of the girls as they arrived and there were a lot of very proud staff and parents watching on.

Prior to the meal, it was great to chat to the students. The photo booth and the portrait photographer were busy supplying mementos of the evening. Dinner was delicious and soon after, DJ Keith got the party started! The dance floor started quiet but it didn't stay that way for long; it felt like every student was packed onto it towards the end. The dance floor took such a pounding, it felt like year 11 were going to bounce right through it at one point!

It was a fantastic evening with lots of happy (and very sweaty) faces as we saw guests off at around 11:30pm. The evening was a fabulous finale to their time at Penwortham Girls' and more than well-deserved following all their hard work over this challenging couple of years. We look forward to seeing them all again on results day.

Mr Bowles, Head of Year 11



continued overleaf...

Welcome to our end of term newsletter



This has been a particularly special term, with welcome return to our normal calendar of summer events.

As I write, our Festival of Performing Arts is well under way, the sun is shining, and I'm looking forward to Sports Day. Then, on Wednesday and Thursday, our students will return to the stage for our production of the *The Sound of Music*. It's been lovely listening to the rehearsals during the last few weeks; we're in for a treat! And next week, all our students will be enjoying a range of trips and extra-curricular activities for Enrichment Day.

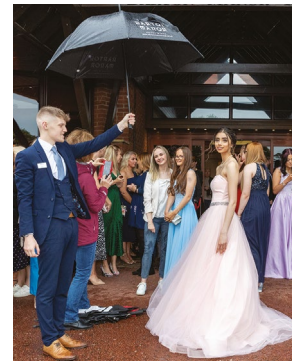
Last Thursday, we thoroughly enjoyed welcoming our new Year 7 on Sampling Day when, amongst other things, they got to meet their 'Buddy Groups' and familiarise themselves with our school ahead of September. Of course, when we welcome new students, we say goodbye to others. We were so delighted that Year 11 were able to enjoy a Final Assembly and their Valedictory; events we took for granted prior to the pandemic. Despite everything they have had to endure during the past couple of years, Year 11 really 'rose to the challenge' of their GCSEs and we couldn't have been more proud of the reliance, commitment and work ethic they demonstrated. We are looking forward to an excellent set of results this summer - something the class of 2022 so richly deserve!

On behalf of all the staff and the Governing Body, I would like to wish you all an enjoyable and restful summer holiday.

Karen Pomeroy, Headteacher



Valedictory Dinner 2022



Lancashire Equality Mark

We are very proud to announce that this term, PGHS was awarded the full Lancashire Equality Mark!

We are the first secondary school in Lancashire to achieve this award, which is given to schools that can demonstrate a commitment to embedding equality throughout their practice and who enable all their students to thrive in a supportive learning community.

For the past three years, our school has been working towards the Lancashire Equality Mark. There are six different strands, and all must be achieved before the school can be awarded the full mark: Socio-economic, Race, Religion, Gender and Gender Variance, Sexual Orientation and Disability. Last term, we were working towards the final strand of the mark: disability. We were very pleased to be awarded this mark and, subsequently, the full Lancashire Equality Award.

Working towards these different strands has created lots of opportunities within our school to celebrate our diverse and amazing school community. We have enjoyed celebrating International Women's Day, where we were able to welcome some of our incredible PGHS alumni back into our school, including Dame Sue Ion and the BBC's Nazia Mogra. We have also sought lots of opportunities as a school community to broaden our knowledge of equality in the wider world, such as in our research competition for Black History Month, or our sessions with 'Solutions Not Sides' during our school drop down days. Last year, we even held our very own 'Unitee' fashion show, which challenged each form to create their own T-Shirt inspired by the theme of unity!

Last week, a representative from Lancashire County Council visited PGHS to see what we have been doing as a school to ensure and promote equality. We are incredibly proud with the feedback we received from the council, which described our work on ensuring inclusivity as "exemplary". They also said our learning environment was "particularly inspiring" and wanted to pass on their congratulations to all staff and pupils in school.

We are looking forward to finding yet more opportunities to celebrate and support our diverse school community. Myself and Mrs Hall are excited to be working with our newly elected School Respect Council Leader, who is full of exciting ideas about different ways that we can continue to promote equality in school.

Miss Starkie and Mrs Hall



Soroptimisses Refreshing Refreshments

The Soroptimisses designed and hosted a successful refreshment stall on Sports Day. It was lovely to be able to work together as a team again and even better that we managed to raise so much money for two great causes.

Our main goal as Soroptimisses is to sponsor the education of two girls in Swaziland. This costs us £600 a year. The second cause we decided to raise money for was the Ukraine refugees. We teamed up with Oasis to take part in their #RibbonsforUkraine charity. Can you spot the colours of the Ukraine flag inside the sweet pots? What would you rather wear to demonstrate solidarity? Would it be the badge or the friendship bracelet?

Our best seller was the 3 for £1 mocktails deal.

Stay tuned next year to see what other exciting Fundraising projects the Soroptimisses come up with!

Miss Brooks



Mrs Pomeroy's Crown Competition

Mrs Pomeroy set Y7 a challenge to decorate a crown for the Jubilee.

The Year 7 forms took up the challenge with gusto and there was hot competition between the forms and their tutors.

The crowns were displayed in each form as bunting during the final week and the winners judged accordingly.

Y7 Form Winners were 7RCH.

Form winners were:
7RSN- Anna H,
7PDE- Zainab M,
7GST- Lottie P,
7GFO- Uswa H,
7RCH- Unaysah P,
7SSC- Humaira H

A vast array of Craft Club crowns were also created and these were absolutely fantastic! It was incredibly hard to choose some winners.

However, the winner was Leonie N, with runners up being Caitlan T and Temperance M-B.

Mrs Cattnach
Associate Assistant Headteacher and
Curriculum Leader for Music



Passport Walks 2022

Students in years 7-10 recently participated in a series of passport walks, raising money for the charity Sleap (www.sleap.co.uk), who help vulnerable young people in the South Ribble area.

In total 600 students took part in the event, with students exploring a range of locations in our local area. Year 7 showed resilience to complete a 6 mile circular walk around Rivington Pike, experiencing some inclement weather along the way. Year 8 hiked around Entwistle and Turton reservoir on a 7 mile route. Year 9 walked from Tarleton to Burscough along the canal towpath. Finally, Year 10 students completed the 9 mile walk from Lytham to Blackpool. The students represented our school superbly on the walks, and were complemented on several occasions by curious members of the public. It was pleasing to see students supporting each other during the more challenging parts of the walks, and showed resilience when the weather became less agreeable. The final total amount raised for charity is not yet known as donations are still being collected, however it will be announced in a future newsletter. I would like to thank all of the staff who volunteered to support the students during the walks and due to their enthusiasm ensured everyone had a safe and enjoyable experience.

Mr Herbert

Associate Assistant
Headteacher



Introducing the new Head Girl and Deputy Head Girl

My name is Olivia and I'm proud to represent Penwortham Girls' High School as Head Girl.



I have thoroughly enjoyed my time at PGHS so far and I hope I'll inspire others to have a similar experience. Joining Penwortham Girls' in Year 7 and knowing no one, was extremely daunting, however, the warm and welcoming atmosphere provided by all staff and students allowed me to settle in instantly and have an amazing experience at this outstanding school.

Our core values play a huge part in every school day, driving us to succeed both academically and personally. All teachers have each student's future in the forefront of their minds and continuously provide support for each of us to reach our full potential. PGHS is also passionate about listening to the pupil voice, ensuring all students can have an impact on their school community. Finally, Penwortham Girls' always motivate the students to fulfil their potential, helping them to become "articulate, questioning, tolerant and independent women for the future".

Hello, my name is Lola and I have just been given the honour of becoming the new Deputy Head Girl at Penwortham Girls' High School.



Many girls in their transition from primary to secondary feel nervous and anxious to take on this big step, but I didn't feel those nerves and instead, all I felt was excitement. I couldn't wait to become a part of the schools friendly and safe environment and finally become a PGHS student. I have never experienced a more welcoming environment. The school has really helped me change from a shy little year 7 to a confident and enthusiastic student. I feel honoured to represent such an outstanding school. It's a school where teachers are always willing to help and encourage you to be the best version of yourself and push you to exceed not only academically, but personally too. It is a school where you are free to be your true self and a community where it is impossible to not make friends. The school offers many opportunities for all students and these opportunities really allow students to become articulate, tolerant, independent, and questioning young women for the future. As my role as Deputy Head Girl, I hope to be a role model to the younger students and be the bridge between students and staff. I wish to communicate ideas from the students to teachers and really expand on the school's pupil voice. I'm looking forward to getting to know the new year 7s and the older students too. Hearing their new suggestions for the school, I will always be willing to help. I have fully enjoyed every minute of my time at PGHS and I hope to spread positivity around the school, ensuring everybody also enjoys their time here at PGHS.

Superhero Run

We had another successful Superhero Run the week before half term in aid of Rock FM's charity – Cash for Kids!

There were 55 Year 7 and Year 8 students who took part and lots of willing staff members! Mr Bretherton and Mr Herbert led the superhero runners from the front and Mrs Cattanach and Mrs Mansoor kept the runners going at the back!

We raised £884 for the Cash for Kids Charity. An incredible £400 of that was raised by Claudia B in Year 8.

A big thank you for everyone's support.

Mrs Davda



Year 10 Work Experience Report 2022

Year 10 completed a week of work experience just before the May half term.

Approximately 140 students went on a placement that they had arranged themselves with a wide range of employers including:

Marks and Spencer, Subway, HM Government (Civil Service) Ashleigh Nursery, Lancashire Constabulary, Cats Protection League, Eric Wright Construction, Rascals Party and Play Centre, Eddie Stobart, UCLAN, Brookfield Equestrian Centre, Penwortham Pharmacy and Studio 28.

Many of these placements were arranged and facilitated by parents and I'm very grateful for the support they provided.

Another group of students completed a series of virtual placements with Adecco, FineToothComb and National Nuclear Laboratories. Several more of our students returned to their old primary schools to see what education is like from 'the other side'!

Work Experience is a vital opportunity for students to develop new skills and be pushed out of their comfort zone.

HERE ARE SOME OF OUR STUDENTS THOUGHTS BEFORE THEY WENT OUT ON THEIR PLACEMENT:

"I am excited to face new set of challenges and being more independent."

"I'm hoping to become more confident speaking to people I don't know."

"I am looking forward to helping others and being in a new environment."

"I know that work is a lot different to school, and whilst some of the skills like time management are needed in both, I'm looking forward to developing some of my weaker skills like communication."

"I am looking forward to seeing if this is something I would like to do in the future! I am hoping to develop my communication skills and my ability to work as part of team."

"It will be different to a normal school day structure and interesting to see how a day is different in a work place."

So one week later, what had our Year 10s learnt about the workplace and themselves?

HERE ARE JUST SOME OF THEIR REFLECTIONS:

"Now that I have had a taste of work life, I will never say to my mum that working is easier than school!"

"I have learnt how important it is to have certain skills for certain jobs especially having the skill of patience and resilience."

"The people that I have been working with have been amazing and truly made me feel comfortable and a part of the team."

"I loved this experience as we got to feel like adults for a whole week."

"I think doing the work experience online has been very effective."

"It was surprisingly fun and I have learned to be more patient with other people."

"I believe work experience has helped my confidence a lot and has set my standards higher."

"Work experience has definitely not put me off being a criminal lawyer or prison law solicitor. I loved it."

"I feel sad that I'm no longer going to work there. I really enjoyed it."

"Overall, this week of work experience helped me gain confidence, responsibility, appreciation for small companies and how to work in a team."

THE FEEDBACK FROM THE EMPLOYERS WAS GLOWING, WITH STUDENTS BEING DESCRIBED AS:

"A huge asset"

"Professional at all times"

"A from us!"*

"An excellent member of the team."

"A credit to herself and the school."

"There is a job waiting here for her!"

"We would love to see her again."

"Intuitive and confident."

I'm really proud of all our Year 10 students for making such a success of work experience and for being excellent ambassadors for PGHS.

Mr Ramsdale
Senior Assistant Headteacher

PGHS News

Therapigs

The school's new 'Therapigs' are settling in well in The Haven and are proving a big hit with students and staff!

After a school vote, they have been renamed Penny and Ginny to fit in with PGHS (we just need a H & S).

The girls in The Haven are doing a fantastic job of looking after them. They are feeding them daily, grooming them, giving them lots of cuddles and cleaning out their hutch. The girls are even regularly vacuuming The Haven to keep the room clean and tidy.



I know the Year 11s are going to be sad to leave them behind but are really glad that they got to meet them before they left.

I will keep you updated on their progress and I am sure the girls will too!

Mrs Davda



Governors News

There are always some elements of the summer term that are quite stressful, but always many that we enjoy! It is that balance that makes the life of this school so enjoyable.

Our Year 11s made it through the stress of final GCSE. Our Year 11s made it through the stress of final GCSE exams and came out the other side relatively unscathed; we now look forward with anticipation to see if they have realised their ambitions when the results are published in August. Many parents will have gone through the stress of finding that 'right' dress for the final event also, not to mention the hair, tan and nails! All other year groups have received acknowledgement of their learning this year too and we love to see the results of all the hard work. Governors have approved the 2022/23 budget and finalised the outturn statement for 2021/22. We have, as a governing board, started to consider the implications of the White Paper 'Opportunity for All' and the SEND Green Paper both presented to government this term, and we will continue to discuss educational issues raised by them in the context of what is in the best interests of Penwortham Girls' High School.

On the positive side, summer allows for reflection on the successes of the year and we look forward to the new year to come. As I write this, we have just celebrated Sports' Day successes, its format altered slightly to cater for the heat, and the team spirit it engenders too. Well done to all who took part whether spectator, participant or helper. Last week, staff confirmed senior student roles for next year; thank you to the outgoing year 11s who have performed their roles so successfully and congratulations to next year's year 11 seniors who we know will rise to the challenge.

This week, we also have the 'The Sound of Music' spectacular to look forward to and even though I have not yet attended as I write this, I know it will be brilliant; there is always so much work put into these events by so many staff and students (lots of them behind the scenes) that we always appreciate the final outcome.

Thank you to all of you (staff, students, parents, governors) for another successful year and on behalf of the governors, please let me wish you all a restful and enjoyable summer break.

Mrs Lorimer Russell-Hayes
Chair of Governors

Life Skills – Summer Term 2022

Year 7 and 8 have spent several lessons looking at gender identity, sexuality and homophobia. They recognise the importance of equality and diversity and how to show respect towards the values, beliefs and opinions of others.

To tie in with Pride month, students had a look at the history of Pride and the different flags to represent inclusivity. They then produced a display and included sources of support.

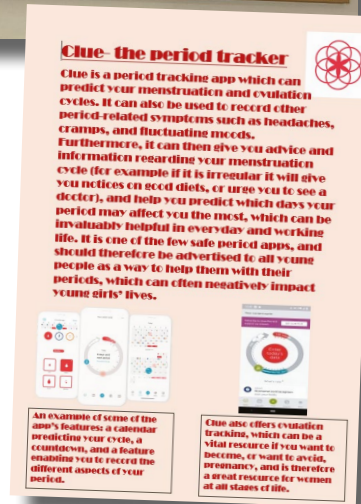
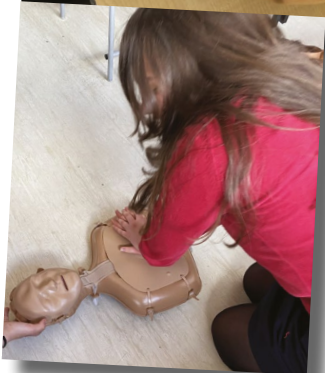


Year 9 have been busy looking at the topic of 'Health'. They learned more about the vaccinations that they may have had as teenagers and the reasons why, as well as looking at herd immunity. They also got the chance to use the mini Annie resuscitation dolls to learn CPR, provided by the Heart Foundation. They have then produced some information leaflets on what to do.

Year 9 have also been looking at health apps. Digitally Healthy Schools is a program designed to give young people access to trusted digital health apps to support a wide range of health areas. Students will be able to access the library within Digital Healthy Schools in the next academic year.

They have also had a look at some other apps and trialled an app for a week. They then wrote about their experiences and the benefits of using health apps. The best write-ups have been entered in to the Digitally Healthy Schools competition for the chance to win a fitness tracker or a £30 amazon gift voucher. Maisie W, Charlotte R, Prisha P, Libby W and Molly T, plus many more submitted some great entries. We are currently awaiting the results.

Finally, every student had the opportunity to complete a survey on Life Skills this academic year. The responses were largely positive and this will be shared in the next newsletter. It was encouraging to see the students caring and actively involved in Life Skills. They took full opportunity at having a student voice on the matter. I also have an army of volunteers ready for next year, who will be helping to raise awareness at parent meetings and parent voice, as well as other exciting opportunities. Watch this space!



Art

GCSE Art Exhibition 2022

Thank you to everyone who attended the GCSE Art & Photography Exhibition during the Festival of Performance and Arts.

The GCSE Art & Photography Exhibition showcased a range of stunning sketchbooks and design boards. We received lots of positive feedback throughout the festival and are extremely proud of our students' achievements.



CAT Faculty London Residential 2022

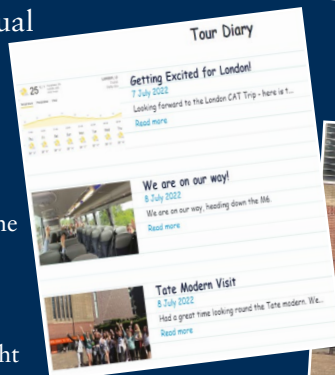
This Year, 23 Key Stage 4 students accompanied Miss Morris, Mrs Gerrard and Miss Scott for the annual CAT Faculty Residential to London.

During the visit, students experienced the delights of London which included visits to the Tate Modern, Victoria and Albert Museum, The Natural History Museum, The Science Museum and The Design Museum.

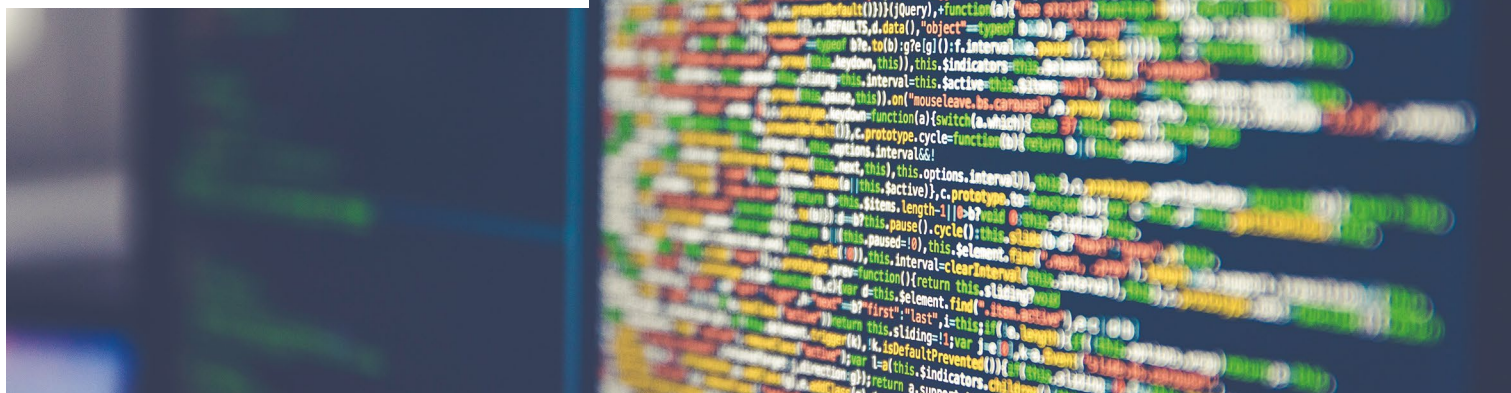
Our busy schedule also included a stroll down the famous Mall and tickets for the West End show 'Wicked' which was a delight to see.

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

Miss Morris Lead Teacher of Art, Design and Photography



Computing



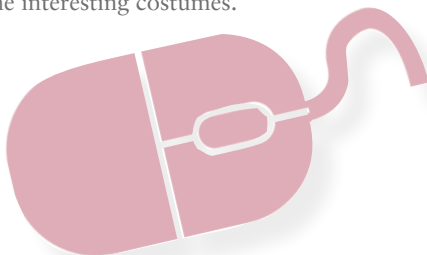
Key Stage 3 Computing

Year 7 have been investigating binary and python basics. The python work builds on the programming skills the students learnt when they completed Scratch in the Autumn term.

Year 8 have been designing their own music festival and have planned a website to promote this music festival. The students have incorporated a variety of features into their websites, including scrolling text, videos and slideshows. We have been investigating the programming language HTML that sits behind the websites and look at challenging the students to write some HTML code to help produce their websites.

Year 9 have been learning about media and have looked at some of the theory behind films, looking at a range of audiences and purposes and also learning about different narrative structures and character types. They have worked in groups and have planned a film trailer for a teenage audience with a purpose of escapism. The students have produced their scripts and have spent time filming. They are in the process of editing the video clips and incorporating sound effects for the trailer. They will then have a finished product. I am looking forward to seeing what the students produce, as there are some interesting ideas and there have been some interesting costumes.

Mrs Bennett
Curriculum Leader for the C.A.T. Faculty



GCSE Computer Science

Year 10 have completed all the theory for paper 1, Principles of Computer Science!

This theory consists of system architecture and software, looking at data representation, including binary, hexadecimal and sound. They have also learnt about how different networks are structured and work. This includes the internet, looking at security of networks, security issues and finally learning about ethical and environmental issues surrounding Computer Science, including legislation. You have all worked extremely well this year and I look forward to next year when we will focus on paper 2 and the practical element of the course.

Mrs Bennett
Curriculum Leader for the C.A.T. Faculty

Creative Arts and Technology Faculty News

Technology

Year 9 BTEC Media Group visit to Media City/Salford University

On the 27th June, the new year 9 option group had a fantastic day out visiting Salford University at Media City. They worked in two groups to research, produce and present either a radio or TV news programme.

The girls worked really hard to write and research before rehearsing and presenting in the TV and radio studios. They were given the chance to use industry standard equipment throughout the day in order to make their final news bulletins. They were then given a short tour of the area. This included seeing where a variety of TV and radio programmes such as 'Match of the Day' and 'Granada News' are produced. It was wonderful to see so many of the students enthusiastic about career possibilities in the media sector and many asked some great questions to gain a better insight into university courses that they could apply for.

Mrs L. Gornall

Design and Technology



Creative Arts and Technology Faculty News

Technology

Year 7 Textiles

Throughout year 7, students have been designing and creating a range of children's soft toys, based on a well-known 'childhood adventure' character.



Students were asked to incorporate a smart material into their design, whilst providing some educational element to the product. Over

the year, students have produced a range of imaginative ideas, which meet the needs of their chosen client.

Year 8 Textiles

Students have been busy creating their 'festival' themed bags.

Students have developed a repeated pattern using CAD and then printed the pattern using Dye Sublimation. Throughout the unit, students develop a range of skills, including how to use the sewing machine, how to use CAD in Textiles and how to adapt a pattern based on the needs of the client. Students have produced a range of multi-use bags suitable for someone attending a festival.



Year 9 Textiles

Students in year 9 Textiles, have created a range of 'upcycled' decorative cushions, inspired by a well-known artist or designer.

Students have explored how the textile industry effects the environment and how we can promote a more sustainable and environmentally friendly way of making and purchasing our clothes. Students re-used old clothes to create a range of original and unique cushions, which meet the needs of the client.

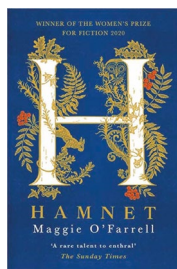


English Department News

The English Department's Recommended Summer Reads

Mrs McKeown's recommendations:

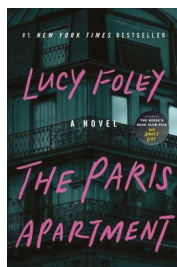
Appropriate for KS4 and above.
Hamnet
by Maggie O'Farrell
"Beautiful. Just beautiful"



Appropriate for KS4 and above.
Nine Perfect Strangers
by Liane Moriarty
Also, a major Amazon series.



Appropriate for mature KS4 and above.
The Paris Apartment
Lucy Foley
"A 21st Century Agatha Christie. A great summer who dunnit?"



Appropriate for upper KS3
Alice Oseman Collection 5 Books Set
I Was Born for This, Solitaire, Radio Silence, Nick and Charlie, This Winter



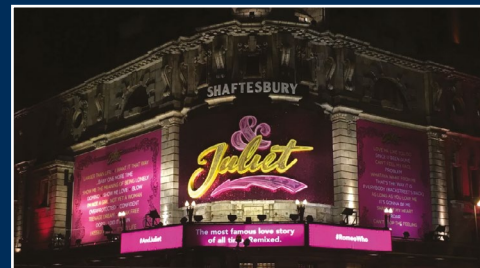
Coleen Hoover Collection



English and History London Trip 2022

On Friday 15th July, 39 Year 10 students boarded the coach at 6:30am to head to the big city, along with myself (Mrs Snowdon), Mrs McGibbon, Mrs Arrowsmith, Mr Herbert and Mr Bretherton.

By late lunchtime we hope to have arrived in Covent Garden, where students (and staff) will indulge in a little bit of shopping, while also being treated to some impressive street theatre. Students will no doubt make the most of their few hours shopping, and return with bags full of goodies. We will then proceed to fill our boots at the Pizza Hut buffet on The Strand, before heading to the West End to watch the dazzling musical & Juliet. Students will then be treated to a late-night drive through the city, to take in all the sights, as we make our way to the hotel.



It will be an early rise the following morning to once again engage in yet another 'all you can eat buffet' for breakfast before we head back into the city for a day of culture on the South Bank. Students will enjoy late morning tours of The Globe Theatre (ideal for our Literature Lovers and Historians), learning all about the realities of Elizabethan theatre. Students will then be treated to a phenomenal performance of King Lear by the Royal Shakespeare Company before heading out to soak up the sights of the South Bank.

We will finally arrive home as Saturday night blends into Sunday morning. Many thanks to the staff who helped make this event happen, including those who have accompanied us and those back in school, working tirelessly behind the scenes.

Mrs Deborah Snowdon, Head of English

Geography Department News

Volcano Competition Winners

Further to the article on the Year 9 Volcano Model Competition Winners last time round, the winning trio have been along to the Geography Department to collect their prizes.

Well done again to Fatimah Zahra P, Mariya M and Safiyyah M. The winning entry is below. Enjoy the lava lamps, girls!



Geography News

The Geography Libraries

A reminder that the Geography Department have both a small physical and a virtual library that students can access to further read around the subject.

Outside Room 39, students can find books on maps, oceans, travel, mountains and many more. Have a look, find something you fancy and bring the book to Mr Bowles to sign out. New books have been added recently, all related to recent topics of study. In the SharePoint of their school Office 365 account, students will find the Geography Virtual Library (once in SharePoint, you can search for it). Here, students will find separate pages for each year group containing suggested reading for those keen and interested Geographers. Clicking on a book cover will give you a sample of the book, usually about 20-30 pages, and if you like it you can track it down on Amazon, second hand on eBay or at your local bookshop.

Where's Earthy?

Email your answer to g.bowles@penworthamgirls.lancs.sch.uk.

You must be as specific as possible with your answer. Bonus Question! Which two cities does the bridge in the photo link together?



Have a great break

Remember, you are always a Geographer, both in the classroom and away from it so try to spread your wings a little and see some of our local countryside if you can.

If you are going further afield, have fun and be a respectful and interested tourist. Regardless of where you are off to, don't forget to send us a postcard from your travels. Have a great summer and bon voyage from Mr Bowles, Mr Ward and Mrs Singleton. (PS – don't forget to send a postcard to the Geography Department for our collection!)

Mr Bowles, Curriculum Leader for Geography

History Department News

Year 7 History Trip to Sawley Abbey and Clitheroe Castle

Earlier this term, over the course of two days, all of our year 7 students had the opportunity to spend the day visiting two impressive historical sites located in our area.

In the morning students visited Sawley Abbey, which has been ruined since its dissolution under Henry VIII in 1536. The monastery was founded in the 12th century and students conducted a full site survey, discovering the location and function of each of the rooms. This complemented the students' classroom study of monastic life during the Middle Ages. The students were then treated to a play in the grounds of the abbey, performed by our students, which charted the significant moments in the monastery's history. This included its founding in 1149, the arrival of the Black Death in 1348, and its eventual dissolution. Using props and costumes the students gave a lively and entertaining performance!

In the afternoon the students made the short journey to Clitheroe Castle. Here they were divided into groups and attended four workshops on castles and castle life, led by the museum staff. The students participated in medieval games such as quoits, a primitive version of badminton, and a medieval board game. They enjoyed an engaging practical demonstration from a blacksmith who quickly made a nail and an arrowhead. In the keep was a very memorable talk by a knight in armour, who allowed the students to wear medieval helmets and wield swords. The final workshop was led by a cook who showed the students the duties of a castle servant and the different types of food that the lord of the castle would have eaten. The finale of the day was a fight between two knights in different types of armour and the blasting of the castle cannon. The students had a fantastic time learning about medieval history in both Sawley and Clitheroe and conducted themselves superbly during the trip. I would like to thank the staff who volunteered to help supervise the students on the trip and become honorary members of the history department for the day!

Mr Herbert,
Curriculum Leader for History



Maths Department News

Mysterious Maths Superstars!

A special shout out to Hannah S and Erica C in Year 7 for regularly getting involved in the 'Mysterious Maths' puzzles that have appeared on the newsletters this year.

Both girls have had to think outside the box to answer some pretty tricky questions at times!

It was a great privilege to present Erica and Hannah with their certificates of excellence earlier this week.

It has been fun compiling the various puzzles and challenges this year and great to see students taking the time to apply their mathematical skills to more unusual problems. I look forward to lots more mysterious maths next year!

Mr McVey
Maths Department



Year 9 Maths- Edge Hill University Mathematics Challenge

Students in year 9 were presented with an extra-curricular opportunity to enter the Edge Hill University Mathematics Challenge 2021-2022 during the spring and summer term.

This is an annual competition organised by the Faculty of Education at the university specifically for Year 9 (England and Wales), S2 (Scotland) and Year 10 (Northern Ireland) students.

The challenge aims to immerse students in mathematics whilst making the subject fun. It provides students with the opportunity to tackle engaging mathematical activities while developing teamwork and communication skills and allows students to explore alternative ways of solving problems; skills which are transferable in the real world.

The teams that entered were:

Team 1: 'The Mathia' (Alice W, Libby W, Savo A, Jennah K and Maisie W)

Team 2: 'The Calcoholics' (Tasneem A, Gracie H, Victoria K, Fatima K and Abi C)

During Stage 1 of the competition, students were presented with two different mathematical problems, of which they were asked to choose one of them, solve the problem as a team and present their solution as a poster. Their posters were sent to the university and the judging panel there would select the best groups from all the qualifying entries from across the country.

It was fantastic to hear that both teams successfully made it through up to Stage 2 of the competition. Although they did not make it to the final stage, they were given certificates from the university to thank them for their participation. As this challenge was extracurricular, it was lovely to see so many Year 9 students give up their own time during break, lunch and their time outside of school to work together and attempt to solve their problems as a team. The Maths Department are really proud of their dedication, resilience and enthusiasm that carried them this far in a national competition.

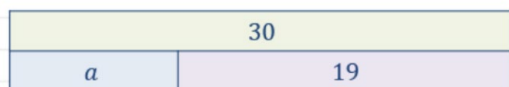
Well done to both teams!

Miss Hasan
Maths Department

Solve the equation:

$$\begin{array}{r} a + 19 = 30 \\ -19 \quad -19 \\ \hline a = 11 \end{array}$$

Bar model representation:



11

Equations

This term, Year 7 have completed a unit of work on how to solve linear equations. This is the first time that most students have studied this area of maths and they have done extremely well to master the 'balance method' and then apply this to different equations.

The first part of the unit focused on solving 'one-step equations'. This is where the equation can be solved with just a single calculation. Although many students could find the solution, they learnt how to use the correct algebraic notation here.

From here, we progressed onto 'two-step equations'. For this, students needed to combine their inverse operations in two steps, understanding which order they should be completed in and knowing which was the correct inverse operation to use. In 7 set 2, we also looked deeper at equations which had negative x terms and how to solve these.

Solve the equation:

$$\begin{array}{r} 5x - 1 = 15 \\ +1 \quad +1 \\ \hline 5x = 16 \\ \hline 5 \quad 5 \\ \hline x = \frac{16}{5} \text{ or } 3.2 \end{array}$$

Solve the equation:

$$\begin{array}{r} 2 = 5 + \frac{x}{4} \\ -5 \quad -5 \\ \hline -3 = \frac{x}{4} \\ \hline \times 4 \quad \times 4 \\ \hline -12 = x \end{array}$$

Maths Department News

The next stage was to introduce equations which have more than one x term. This can sometimes be tricky at first but year 7 understood how to identify the smaller number of x terms and then how to use the inverse to manipulate to an equation with just a single x term.

Example

Solve

$$\begin{array}{r}
 6x - 4 = 3x - 1 \\
 -3x \quad -3x \\
 3x - 4 = -1 \\
 +4 \quad +4 \\
 3x = 3 \\
 \frac{3x}{3} = \frac{3}{3} \\
 x = 1
 \end{array}$$

Example

Solve

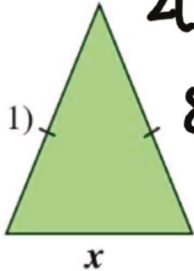
$$\begin{array}{r}
 3x - 5 = 7x - 4 \\
 -3x \quad -3x \\
 -5 = 7x - 4 \\
 +4 \quad +4 \\
 -1 = 7x \\
 \frac{-1}{7} = \frac{7x}{7} \\
 -\frac{1}{7} = x
 \end{array}$$

Finally, in 7 set 2, we looked at how to form and solve equations. Here, we linked our knowledge of perimeters to algebra, where pupils were able to set up an equation for themselves and then solve it using their new skills. Within this part of the topic, we also looked at how we could use knowledge of angle facts to also set up equations. All Year 7 groups have responded well to this unit of work and we are really impressed with the depth of understanding which they now have. Next, we can look forward to more challenging equations in Year 8!

Example

The perimeter of this shape is 376 cm

Find the value of x

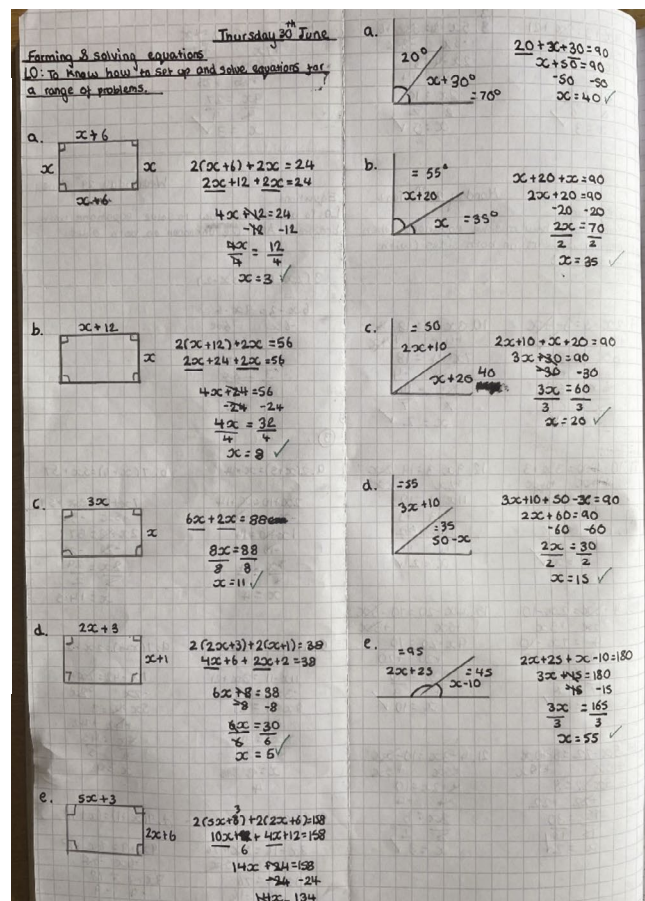
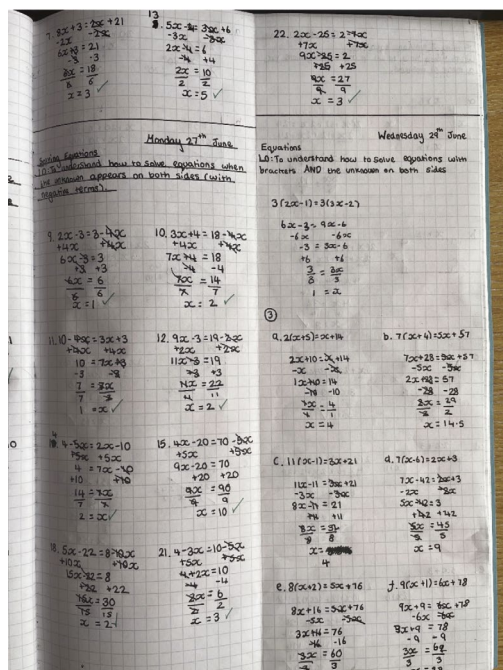
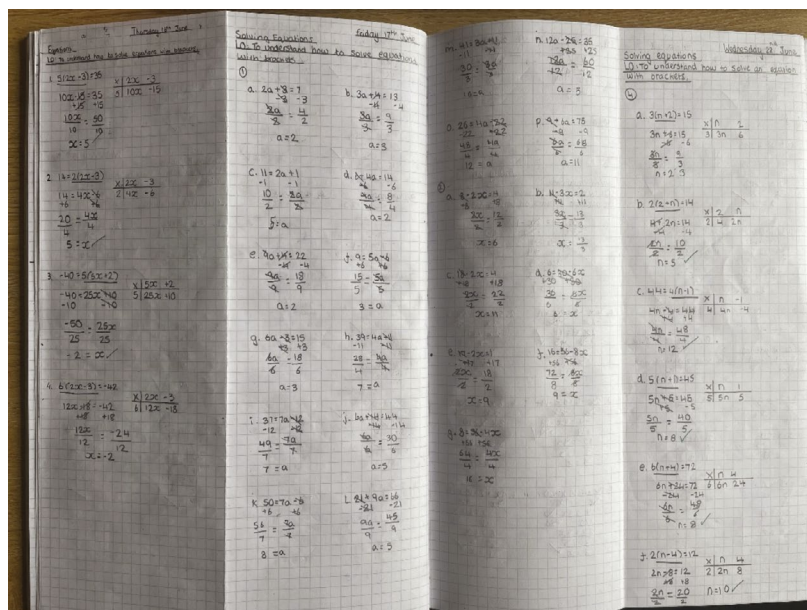


$$\begin{array}{r}
 2(4x - 1) + x = 376 \\
 8x - 2 + x = 376 \\
 9x - 2 = 376 \\
 +2 \quad +2 \\
 9x = 378 \\
 \frac{9x}{9} = \frac{378}{9} \\
 x = 42
 \end{array}$$

$$\begin{array}{r}
 x \mid 4x - 1 \\
 2 \mid 8x - 2
 \end{array}$$

Maths Department News

Here are some examples of classwork from Jade B's (extremely well presented) exercise book in set 2.



We would also like to say a huge well done to all Year 11 students on the completion of their exams.

We have been really impressed with their excellent attitude to learning and resilience throughout their last few weeks of school. Although faced with the challenge of lockdown learning and extra-long lessons during Year 10, all students worked incredibly hard. We would like to take the opportunity to wish you all the best, both with your results and whatever you choose to go on to do in September!

Mrs Sweeney
Lead Practitioner of Mathematics

Teaching for Mastery in Secondary Mathematics at PGHS

On Thursday 30th June 2022, 30 schools were invited to join us in a full day event demonstrating the use of Cuisenaire rods in secondary mathematics. Each school was provided with a small pack to take. They were also given the opportunity to observe a one-hour live lesson taught by Mrs Bennett (Teaching for Mastery Lead for Abacus NW Maths Hub). This lesson involved teaching a year 7 group on an introductory lesson on using ratio tables to solve direct proportion questions.

As always, our students were a credit to us. They were not fazed by a large group of teachers observing them in our Training Suite.

Below is a little bit about Cuisenaire rods and why we use physical resources (manipulatives) in mathematics lessons at PGHS.



Georges Cuisenaire was a Belgian teacher who started his career during World War I and in the 1940s founded his own school. He invented his rods after noticing his students were able to understand mathematical concepts during music classes. The students were able to do something with their hands but did not understand these same concepts in maths classes, where they just listened passively and filled out worksheets.

He set about making a tool that in his words could:

“Creates visual, muscular, and tactile images that are clear, precise and sustainable” (Cuisenaire, 1952, p. 17).

What he ended up creating were Cuisenaire rods.

‘Children do not learn from manipulatives. They learn from the activities which they do with the manipulatives’ (Sfard interviewing Skemp 1990)

We need to offer children memorable and meaningful experiences that support them to develop their number sense and their mathematics as a whole.

Cuisenaire rods can support conceptual understanding in a wide range of mathematics. The list is exhaustive but here are some examples:

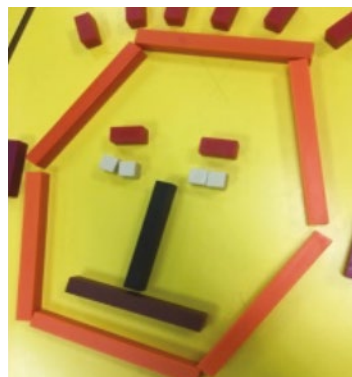
- Counting, sequences, patterns and algebraic reasoning
- Addition and subtraction (additive reasoning)
- Multiplication and division (multiplicative reasoning)
- Fractions, ratio and proportion
- Modular arithmetic leading to group theory

A really nice task is to get students to start to explore by letting the white rod be equal to one. The rods are of a set length but they are not given a set number, and so this can be varied to open up more opportunities to problem solve and reason mathematically.



Problem 1:

If the white equals 1, can you make a face that totals 100?



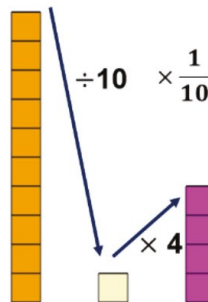
What is really interesting is the way this problem was approached!

Problem 2:

Make an animal:

- With a head $\frac{1}{4}$ of the body
- With a head $\frac{1}{2}$ the body
- With a body twice as large as the head.

The live lesson involved using Cuisenaire rods as a pictorial representation to calculate a single multiplier to scale one number into another. The Cuisenaire rods provided a visual representation of the unitary method (scaling down to 1 then scaling up again)



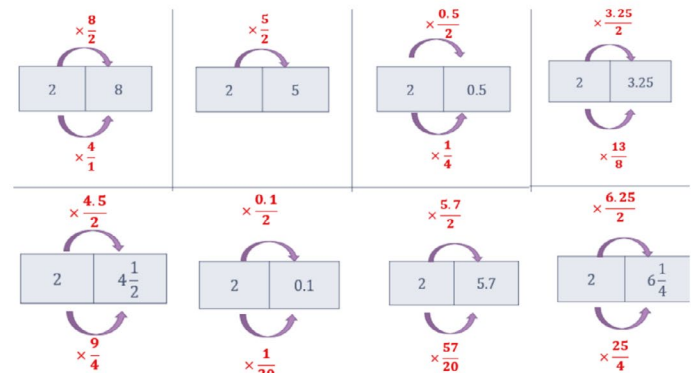
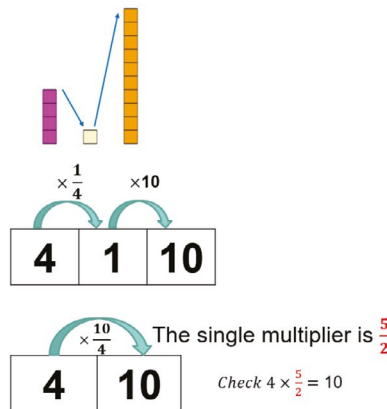
Dividing by ten is the same as multiplying by one tenth

$$\frac{1}{10} \times 4 = \frac{4}{10}$$

The single multiplier to scale 10 to 5 is $\frac{2}{5}$

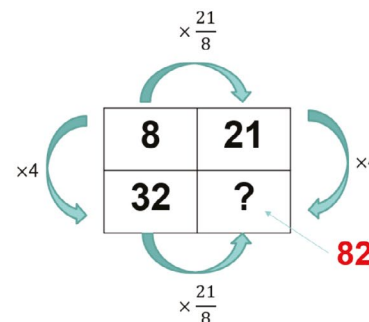
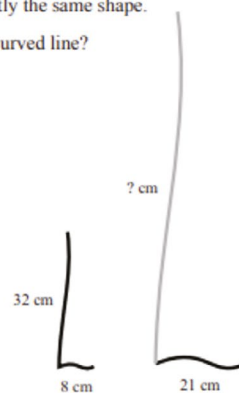
Check $10 \times \frac{2}{5} = 4$

Students then moved to calculating this single multiplier using ratio tables.



By the end of the lesson, the students started to apply their skills to solving direct proportion questions using ratio tables.

These two Ls are exactly the same shape.
How long is the grey curved line?



Mrs Bennett, Maths
Department

Modern Foreign Languages News

German Spelling Bee

What an exciting term for our German spelling bees!

Our two regional final winners, Poppy and Zoha, went to the Sedgewick Site at Cambridge University on Monday 27th June to compete in the national final of the 'Routes into Languages' German spelling bee.

The day was broken down into two halves. In the morning, they competed in the semi-final. Each student had one minute to translate and then spell as many words as they could using the German alphabet. Both girls did so well and made their families and all of us at PGHS, super proud!

We then had a nervous wait for the grand final. It's possible that Miss Gelder was the most nervous of all! The grand final then followed the same routine as the semi-final.



Unfortunately, we did not make it into the final four but by Miss Gelder's count, it was extremely close.

Both girls should be proud of themselves for making it to the final. Out of nearly 20,000 official entrants, our girls finished in the top 29 in the country – an incredible achievement!

Miss Gelder has been truly blown away with the effort and commitment of all competitors. You have been truly amazing and made everyone so proud. We cannot wait to get started with the year 8 Translation Bee in September. Watch this space!



Modern Foreign Languages News

French- Penfriend letters

Year 8 have been very excited to receive replies to our penpal letters from France.

They wrote to us about their school and their timetable, and we have been shocked by the length of their school day, from 8.00am till 4.40 pm! However, we are still a little envious about their longer summer holidays and Wednesday afternoons...

Year 9 received lovely letters from their penpals and some students even sent friendship bracelets. Classes have enjoyed receiving and sending letters this year. This has helped them develop the PGHS core values of empathy and curiosity.



German Penfriend letters KGI

We have had a really successful year with our German partner school, Sickinger Gymnasium by exchanging letters and video calls with them this year.

Mrs Gill's year 8 German class have received some fantastic letters from our friends in Landstuhl and we have returned some amazing letters, telling our friends about our Easter holidays and what we plan to do in the summer holidays. This has not only helped to improve our German but also enabled us to find out interesting information about our German friends, their town and their culture. We look forward to continuing this partnership in 2022/2023.



Modern Foreign Languages News

French – Y8 Roleplay Practice

Every year, around 60 students have the opportunity to start learning French in year 8 as an additional foreign language alongside studying German.



Year 8 have worked really hard this year and made huge progress in a short amount of time. I am super proud of them. Bravo! Madame Raine.

Students have been learning how to form questions in French. They practised their questioning skills to interview celebrities. You may recognise familiar faces...



In French, this term, we have been learning to read, write and speak all about different sports and hobbies. We have been covering everything from horse riding to football and then discussing our opinions on them in French. We have also been learning to describe the weather - il pleut beaucoup! We've been improving our pronunciation and working on our understanding of masculine and feminine words. I thoroughly enjoy French as it is always a fun and lively class. I love learning about its culture and the day-to-day life of children in France. We all have French penpals that we write to every term – mine is called Naim. Rosie Y



Masks. Year 8

For our final module in Year 8 German, we have been exploring different festivals in Germany, Switzerland and Austria.

I can certainly say that we have been working hard with the PGHS Core Value of curiosity.

Our studies have taken us from onion festivals in Switzerland to music festivals in Austria, finger wrestling in Bavaria to the World Beard Championships in Hesse.

The festival which caught our imaginations the most, was Fasnacht or Fasching (depending on which part of Germany you live in). It is an opportunity to drive out 'evil spirits' with scary masks, costumes, processions and loud music.

Here are some of the masks we made. Can you work out if your daughter is hiding behind a mask?



Modern Foreign Languages News

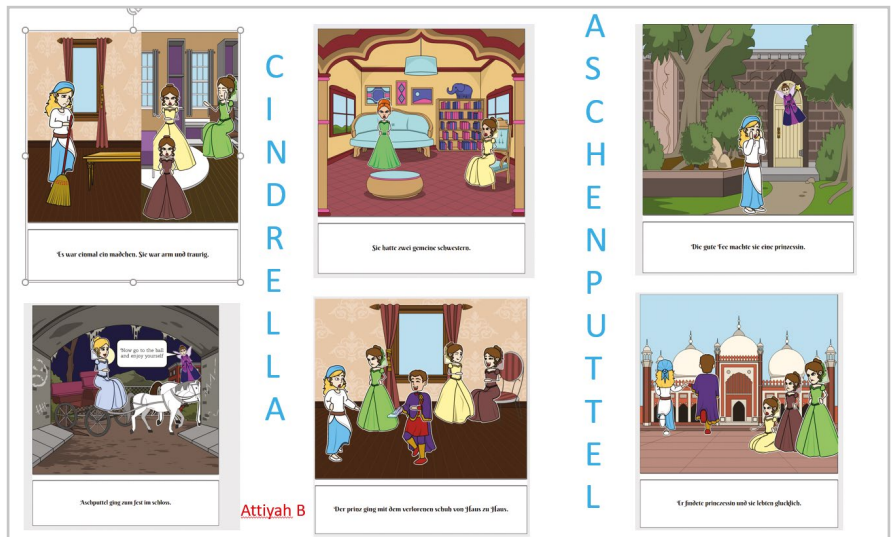
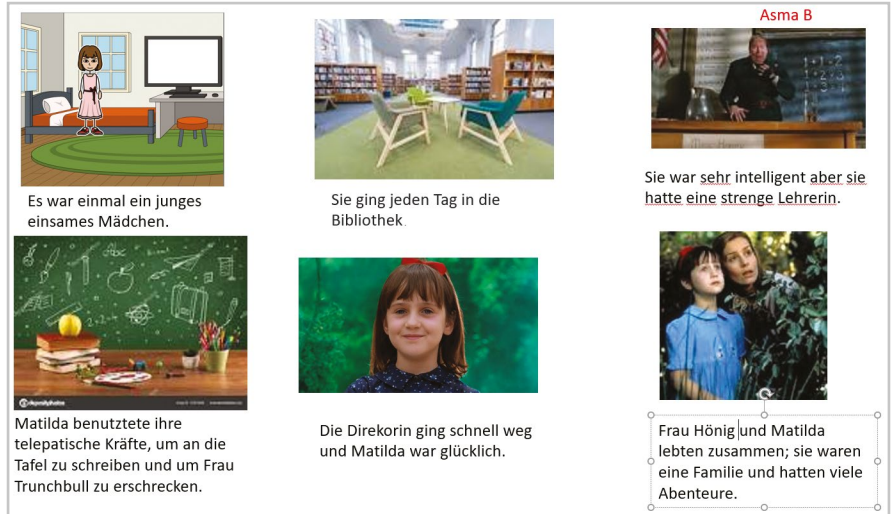
Märchen. The Brothers Grimm. Year 9

We all know and love the stories of Little Red Riding Hood (Rotkäppchen) and Cinderella (Aschenputtel). These stories were originally German folk tales, which were collected and adapted by the Brothers Grimm.

In year 9, we have been making storyboards based on fairy tales or stories which we enjoyed when we were younger.

There is a great deal of linguistic skill involved in writing a story in German. German books are written in the imperfect tense and it is important to master this tense, if we are to read for pleasure in German. We have also tried to keep to the Grimm Brothers' distinctive style of presentation.

We hope you can work out what the stories are about and that you enjoy Year 9s German versions of some well-loved classics.



Modern Foreign Languages News

Stars of the Term

NAME	CLASS
Aminah A Natalia N Saffiyah M Fiza M	Year 7 German
Rosie Y Lexa K Vidhya P Aysha M Amy M Hattie C	Year 8 German
Molly T Sofia S Charlotte R Lottie J Jemima B Ellie-May T Jennah K	Year 9 German
Tilly P Lola U Bridget CS Elijah K Aurelio C Issy H	Year 10 German

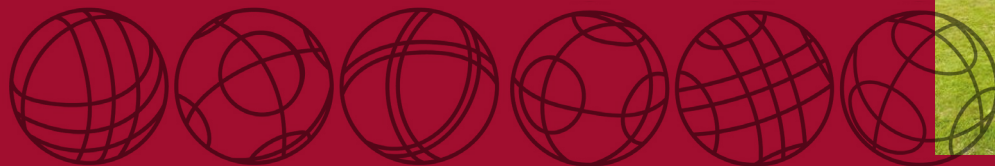
NAME	CLASS
Emily B Elizabeth B-R Hattie C Eden F Lucy F Saskia H Amy McV Ruby R Rosie Y	Year 8 French
India A Heather P Jennah K Alice W Libby W	Year 9 French
Charlotte B Maryam M Megan H Stevie Olivia S	Year 10 French

Mrs Gill
Curriculum Leader for MFL



French – 8p Boules Practice

As part of the Festival of Performance and Arts, 8p have been practising their “Boules” skills. 8p had a good time, but I feel some students may need to work on their techniques!!!



PE Department

Sports Day 2022



On Monday, we hosted our annual Sports Day, a celebration of both sporting excellence and community. In uncharacteristically warm weather, each year group competed in both athletics and netball interform competitions. It was great to see so many students jumping, throwing and running to success.



are also clearly bursting with potential, with a number of standout performances, including a very impressive 1 minute 8 seconds in the 4x100m relay by 7RSN.

The netball tournaments were hotly contested with each form playing a round-robin of matches. Tight competitions in years 7 and 8 were eventually won by 7GFO and 8EHO, while 9SHS and 10SCH surged to victory without defeats! 9SHS scored an incredible 56 nets across their 4 matches!



Each form also contested a range of non-sporting challenges, including form banner, poetry and photography competitions. This was Katie T's effort from 8KFI:

*Once there was a runner from PGHS
Who experienced much athletic stress,
Resilient and determined she ran her race
Braving the heat, she was truly an ace.
The teachers cheered, so did the crowd,
Everyone at Sports Day was wowed.
Another Penwortham Girls' annual event ends,
Remembered as a fun day with friends.*



Due to forecasted high temperatures and strong sunshine, there was some last-minute reorganisation of the day, with fan zones relocated to maximise shade and the rounders component delayed to enable a midday finish. The rounders competition will now be held on the final day of term, so in 2022 at least, we don't have to wait a full year to relieve the thrills and spills of sporting competition! Roll on Tuesday...

Mr Ward
Senior Assistant Headteacher

Music Department

'The Sound of Music'

On the 13th and 14th July, Penwortham Girls' High School performed 'The Sound of Music'.

This was the result of a tremendous effort from students and staff alike. Originally scheduled to be performed in 2020, before lockdown, the recasting and audition process began in February, with rehearsals starting immediately afterwards. The Sound of Music is set in Austria on the eve of the Anschluss in 1938; the musical tells the story of Maria, who takes a job as a governess to a large family while she decides whether or not to become a nun. She falls in love with the children and eventually, their widowed father, Captain von Trapp.

Maria is played by India A, year 9 and Captain von Trapp is played by Sea B, year 9. The children are played by Katie K (Liesl), Mia S (Friedrich), Aoifa C (Louisa), Lily S (Kurt), Olivia H (Brigitta), Libby H (Marta) and Jemima A (Gretl) with the children ranging in ages between Year 7 to Year 10. Mother Abbess was played by Katie T, year 8, who performed the iconic song 'Climb Every Mountain' with ease. The show would not be possible without numerous other key characters who were also absolute stars of the show, not forgetting the members of the orchestra who pulled together to create the fantastic musical accompaniment and the dancers who entertained us with their elegance. Overall, the performances were a tremendous success and a credit to the hard work and dedication of everyone involved. We hope that everyone has made some special memories which will be treasured for years to come.

Mrs Cattnach, Associate Assistant Headteacher & Curriculum Leader for Music

"It has been a joy to take part in 'The Sound of Music' after having so long without being able to take part in stage performances. Thank you to everyone in the cast and staff who have helped us to produce this musical."

India A (Maria)



"Lots of talented, young individuals took part, however, it would never have been possible without the planning, dedication and effort of the staff involved. Lots of money has been invested in finding amazing costumes and a whole new set of microphones. Work from the students started in January and they've all been working diligently to perfect their roles by giving up their free time. Many months of collaboration between our excellent cast has formed new friendships and bonds which were made evident when the chemistry on stage was obviously displayed. Despite some hard and stressful times, we pulled through together and the outcome was an incredible performance."

Emma B and Katie K (Year 10).

THE SOUND OF MUSIC

Religious Education

In RE this week...

In RE this term, we were asked to create a project with an aim to combat Islamophobia. It had to be a captivating project that would appeal to the younger generation.

Our group decided that we would make a news report video. We interviewed students, asking their opinions on Islamophobia and what they were going to do to support the abolishment of the growing issue. We had some fantastic responses, including a social media campaign called 'Stand Up to Islamophobia' which is active on every social media platform and aims to raise awareness. We thought this was a brilliant idea, considering that many young people have access to social media, therefore would be a great place to gain recognition and make more people aware. We edited our video by adding sounds and special effects to make it more engaging. We hope it made many more students aware of this important topic.

<https://youtu.be/86IbyUyNlmg>

Written by Sophia H, Yr9.



Police interview

This term, Year 9s have enjoyed studying 'Crime & Punishment' and 'Islamophobia'. Alongside teaching substantive knowledge, we think it is crucial that we enhance students' personal development by informing them about career choices that link to RE.

A popular career that RE can be a great stepping stone for, is the police force. A Sergeant from Lancashire Constabulary volunteered his time to answer interview questions from our students. The students submitted their questions via a Microsoft Forms quiz and Miss Brooks categorised this into three categories for the Sergeant. Questions were answered on the following topics:

- Policing links to RE
- Personal experiences in the police force
- How to become a police officer

Interview Highlights:

If you could say one thing to all criminals to change their mindset, what would it be and why?

Treat other people as you would want to be treated. One of the ways we encourage criminals to think this is way, is through restorative justice programmes where criminals meet with the victims of their crime and see first-hand how they have affected them.

Why would studying RE be useful as police officer?

A great example of this would be from during my time working as a Sergeant in police custody. If a Muslim is arrested, you have to provide them with a Quran and prayer mat at the correct prayer times. If you don't, you could be accused of religious discrimination. By studying RE, you will have prior knowledge about people's unique needs.

Some of the year 9s wrote some lovely postcards to be posted to the Sergeant as a thank you for his time and service to the community.

CURIOSITY
AMBITION
SOCIAL RESPONSIBILITY

How do you deal with cases of Islamophobia?

Charlotte R

What was an experience you went through whilst being a police officer that made you feel it was the right job for you?

Massomah E

Why do you believe it is important to promote diversity within the police force?

Caitlin J

Have you ever had to go against your own personal beliefs or morals in your job as a police officer?

Libby W

Religious Education Department News

Year 8: Jewish Holocaust Memorials

This half term as part of the Jewish module, Year 8 have been studying Anti-Semitism.

As an example of Anti-Semitism, we have spent three lessons looking at the suffering of the Jews during the Holocaust. We used the Windermere Children case study. As a focus, we explored how Jews became ashamed of their religion as a result of their experiences.

The year 8s were given the project of creating a Holocaust Memorial for Jewish people. They had to use their knowledge of the Jewish religion combined with their knowledge of the Holocaust to make a suitable memorial which would help them feel proud of their religion.

The teachers were blown away with the careful thought and design that was put into the creations. We have some very talented, aspiring architects!

We were so impressed with the memorials, that we wanted everybody to have a chance to see the display of incredible work. We set up a Holocaust Memorial museum which was run by our fabulous team of year 8 curators. This allowed them to see how religious knowledge could benefit them in a career.

Miss Brooks, RE Department



Lydia put a huge amount of thought into her memorial. She used a bench as The Shabbat. Meal time is a sacred time for Jews that was taken away from them during the Holocaust. This was something they could use to celebrate these times together again out in the open. Lydia also spelt Windermere as 'Wondermere' to represent the awe and wonder that Windermere brought to the lives of the Jews.

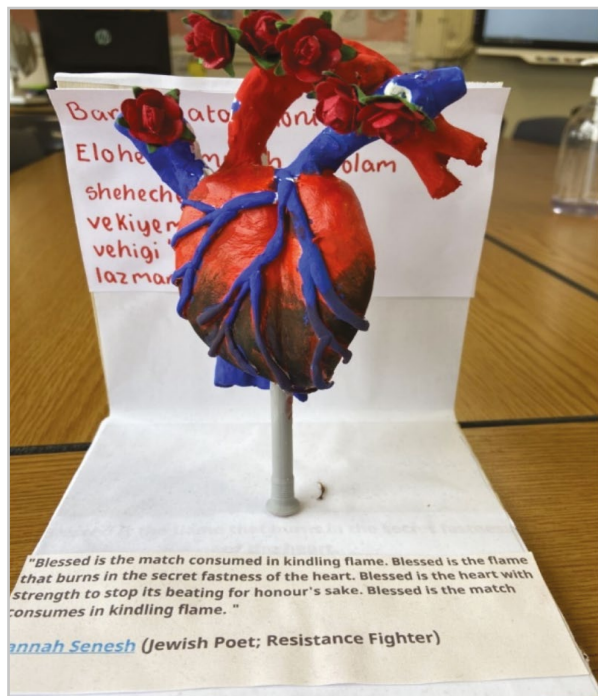
Nature was a popular theme amongst the memorials.



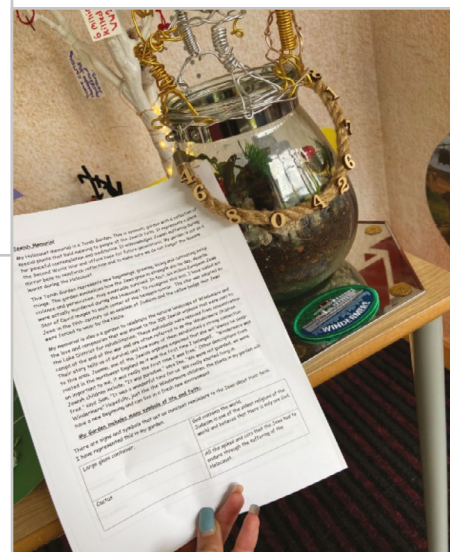
The Star of David was displayed in the majority of memorials. Caleb used a broken star in their memorial to demonstrate the shattered faith of the Jews that we could begin to piece back together.

Religious Education Department News

Mr Bretherton and Mrs Hall enjoying the museum!



Sofia's explanation clearly went above and beyond. Each different flower / plant she used had a different symbolism behind it which she outlined in detail in her explanation.



Hattie's project really resonates with everything that is at the 'heart' of our Religious Studies here at Penwortham Girls. She displayed the heart to make people reflect how on the inside, we are all the same and we are all humans. The Jews should never have been treated any differently to any other human.

Science Department News

Step into the NHS

Inspire yourself
Raise your career aspirations
Discover over 350 NHS careers



Deadline: 30th April 2022

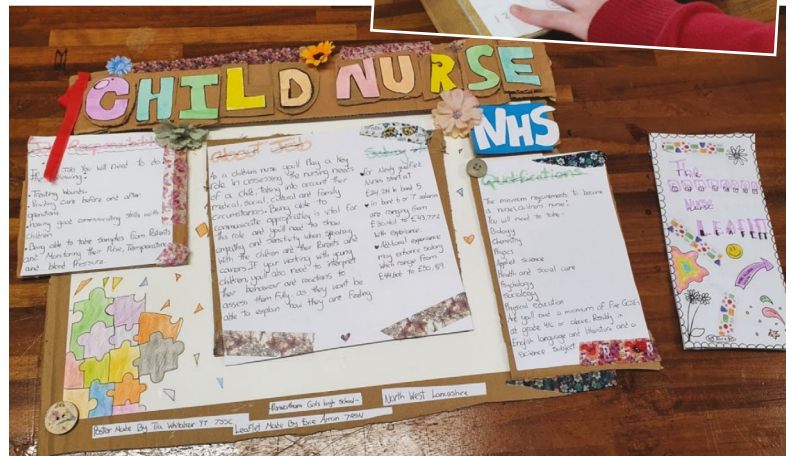
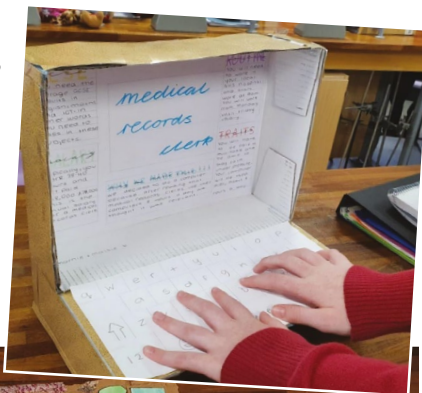
Step into the NHS Competition

This year, all students in year 7 took part in the 'Step into the NHS' competition. Students were asked to research a variety of careers within the NHS, pick a job which appeals to them and then create a job description and a job advert to promote their chosen career.

We are delighted to say that four of our students; Marnie D (7PDE), Maisie K (7GFO), Evie A (7RSN) and Tia W (7SSC), have been shortlisted into the top ten entries in the North West.

Well done, everyone!

Miss Forrest, Science Department



'If you were an Engineer, what would you do?' Leaders Award Competition

Year 10 took part in the 'If you were an Engineer, what would you do?' Leaders Award competition.

The competition challenges students from primary and secondary schools to identify a problem, design a creative solution to their problem and write a letter explaining why an engineer should choose to build their solution.

During the STEM festival, year 10 had a number of lessons to prepare them for the competition.

All the students that entered the competition had their design graded by an engineer and will shortly be receiving a certificate.

The competition organisers were amazed at the fantastic entries that we submitted and at the judging event, two highly commended and two winning entries were chosen from our school. The highly commended were the ones which came very close to winning but ultimately there could only be two winners for each year group for the Lancashire region.

The Highly Commended Entries:

Year 10 Amirah P. "Device Charging Wheelchair"

Year 10 Isabella W. "The Cube"

The Winning Entries:

Year 10 winner – Esha C. "Muscle Relief Suit"

Year 10 winner – Isabel B. "Write-Right"

The winners and the highly commended students attended an awards ceremony at UCLAN on Wednesday 15th June. The winners were each presented with a winner certificate and trophy.

Mrs Goodwill, Science Department



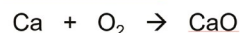
Balancing Equations

A key concept in Chemistry is how to balance equations.

This can be a very daunting challenge for many Chemistry students. This week, year 9 students began to balance these equations as part of their GCSE Science course. To balance an equation, the number of atoms of each element must be the same on either side of the arrow. This is because no atoms are lost or gained during a chemical reaction.

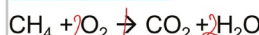
Balancing Equations

Silent Teacher



Balancing Equations

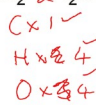
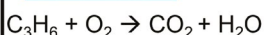
Silent Teacher



Silent Student



Silent Student



Rather than just talking the students through how to do this, we have used Silent Teacher / Silent Student to teach this skill. It involves the students observing the teacher balance the equation using a visualizer and following the different steps involved. They then have a similar equation to balance for themselves on their whiteboards. The students benefit as they get to see the expert work and they also get to use a whiteboard, so any mistakes are easily corrected. It also allows for immediate feedback and correction of misconceptions.

Test yourself! Can you balance the following equation? $\text{C}_8\text{H}_{18} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$

Mr Dean, Science Department

Science Club

This term, our Science club students have been attending every Wednesday lunch time to take part in a wide range of fun and exciting scientific experiments, investigations and challenges.

Recently, students have created papier-mâché volcanoes which we will erupt next week using a variety of methods. Our scientists have also created lava lamps, investigated the reaction of metals with acid, explored non-Newtonian fluids (oobleck) and grown some fantastic corn plants.

Science club is open to all year 7 and year 8 students. Anyone wanting to attend can just turn up and get involved on Wednesday lunch times at 12:45pm in room 47.

Lucy W, Katie K and Unaysah P with their volcanoes

Miss Forrest



PGHS Radish Growing Competition

To take advantage of the long days and warmer weather, a number of students have been getting involved in a vegetable growing competition as a way of learning about plants. Each of the students involved have planted (and in most cases, named) their own radish seed.

This term, as well as nurturing their young seedlings, the girls have been learning about the life cycle of plants, the importance of fertiliser for growth, agriculture and the factors that affect photosynthesis. We now have trays full of radishes ready to be harvested.



The students now have the chance to enter their potentially prize-winning root into the competition. There are a number of categories, including 'heaviest radish', 'longest radish', 'most identical pair' and, at the request of my class, 'most glamorous radish! Hopefully this project will help the students understand more about the incredible plants that they see everyday and have a greater appreciation of where some of our food comes from.

Mr Coogan

Science Department

National Online Safety Mobile App

It's time to get #OnlineSafetySavvy

Children are spending more time than ever online. As adults, we need to do everything we can to keep them safe in the digital world. However, with new apps, games and platforms emerging every day, how can you stay in the know?

Say hello to the new National Online Safety mobile application.

With all online safety knowledge available at your fingertips, the NOS app empowers parents and teachers to understand and address online safeguarding risks – anytime, anywhere.

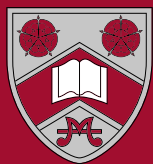
The world's most comprehensive online safety app is packed with insightful courses, explainer videos, webinars and guides on topics that will help you protect the kids you care about when they're online.

FREE Online Safety App for Parents & Educators!

We're excited to launch our FREE mobile app, giving you access to instant information about the latest apps, games, devices & more.

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Penwortham Girls'
High School

Cop Lane Penwortham Preston PR1 0SR
Telephone: 01772 743399 Fax: 01772 752475
Email: enquiries@penworthamgirls.lancs.sch.uk
Website: www.penworthamgirls.lancs.sch.uk