

# Newsletter

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Important Dates:



4<sup>th</sup> – 18<sup>th</sup> April  
Easter Closure

Tues 19<sup>th</sup> April  
Students Return

2<sup>nd</sup> May  
May Day Closure

30<sup>th</sup> May – 3<sup>rd</sup> June  
Half Term Closure

28<sup>th</sup> June  
Year 11 Valedictory  
Dinner

13<sup>th</sup> and 14<sup>th</sup> July  
The Sound of Music  
Production



## PGHS STEM FESTIVAL 28<sup>th</sup> February – 11<sup>th</sup> March 2022



One of my personal highlights of the STEM festival was the careers carousel that we held for our Year 10 and 11 students. They were able to talk to many industry STEM ambassadors about their careers and pathways to success. The students were able to talk to each ambassador for 6-7 minutes. We had such a range of people and I would like to express my thanks to each of the following:



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Alan Wall - Principal Mechanical Engineer @ BAE Systems

Amy Nisbet - Head of Operations – Cyber Security and Secure Information Systems @ Jacobs Plc

Andrea Goddard - Senior Consultant Aerospace Engineer @ Industry Forum Ltd

Andrea Whittle - Chief Engineer @ VES Ltd

Catherine Noonan - Engineering Analyst @ Jacobs Plc

Dawn Petts - Nuclear Safety Inspector @ The Office for Nuclear Regulation

Dr Mayur Jagatia - Group Director – Material Science and Structural Integrity @ Jacobs Plc

Jo Crawford - Air Traffic Controller @ NATS

Linda - Researcher, Author and Digital Technology Policy Advisor @ Independent Consultant and Member of  
Several National and International Boards and Committees

Mollie German - Mechanical Design Apprentice @ Sellafield Ltd

Moneka Duffy - Junior Mechanical Designer @ Sellafield Ltd

Natalie Charnley - Dr/Consultant Oncologist @ NHS

Neil Kiley - Electromagnetics Specialist @ BAE Systems

Nicky Patterson - Air traffic controller @ NATS

Nigel Roocroft - Advisory Learning Business Partner @ KPMG

Paul Kirkham - IT Business Partner @ Warburtons

Rebecca Ashton - Senior Accountant @ Studholme-Bell Limited

Robert Harwood - Consultant Environmental Geologist @ Oryx Mining & Exploration Ltd

Robert Turnock - Project Engineering Manager @ Sellafield Ltd

Salma - Business Advisor @ Manchester Metropolitan University

Stephen Moncrief – Director @ MonActs Ltd

Steve Rawlinson - Estimating Manager @ John Sisk & Son

Vicki Smith - Resourcing Manager – Sales @ Jacobs Plc

Simon Bourne - Key Account Manager (Life Time Services) @TGW Ltd

Ruth Armstrong – Pharmacy

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Who did your daughter talk to? What did they find out?

## Our ambassadors said

*"I wish I had the opportunity to do something like this when I was at school!"*

*"It was also good to see so many of the students really interested in talking about STEM even if it wasn't their chosen career path."*

*"The STEM Festival Careers Carousel was a credit to Penwortham Girls' High School from two perspectives. For many of the Year 10 group, they are just embarking on probing the many career opportunities available to them. For this group, the career fair can be inspirational. For the Year 11 group, most had already decided what further studies they would be embarking on. For those undecided, the career fair provided them with a diverse and varied range of career opportunities."*

*"I enjoyed speaking to all the girls, describing my job covering all areas of STEM and the non-STEM soft-skills required such as communication and organisation."*

*"Thank you for the opportunity, a wonderful event that I hope was very valuable to the students."*

*"Some girls were so enthusiastic after meeting me, they wanted to do 'the floss'!"*

*"Girls - You can be whoever and do whatever you want - there are no limits!"*

*"Deciding on a career choice is probably one of the most important and exciting decisions a student can make. Discover your future now!"*

*"No matter how much you fail you will still get to where you want to be"*



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## Our students said

*"Set paths don't exist for those who want to aim high!"*

*"It was a very interesting event which has opened up my mind to the possibility of a STEM based career."*

*"The most beneficial and insightful opportunity an Individual that aspires to become a woman in STEM could be provided with."*

*"It was really fun, we got to learn about many lesser-known STEM jobs and how they help shape our world today."*

*"Great experience to meet such inspirational people from different fields of work."*

*"I enjoyed the STEM careers event as I liked to see that there were many women with roles in STEM. This really proved the idea that women are just as capable in STEM roles as men are."*

*"The best experience I have ever had."*

*"It was an amazing opportunity as it gave me a chance to think about my career more, and it helped me understand that there are many opportunities related to STEM because all the ambassadors were all so different. They all picked similar options to study, so it doesn't matter what you want to be as a lot of things link to STEM. Thank you for helping us know more about the pathways you can choose, it was really useful and I enjoyed it a lot :)"*

*"I never realised the variety of jobs in STEM, it has really made me think."*

*"It made me reconsider my job when older."*

*"The STEM careers event provided me with a broad spectrum of knowledge surrounding jobs involving STEM. There was a huge diversity of roles and people there to educate and encourage us to be resilient young women in a predominantly male dominated field. They also provided us with information regarding how to enter these jobs and I was delighted to learn that many offer apprenticeships in many different areas of the company. Overall, this was a very positive experience for me and reinforced many of our school values such as ambition, curiosity and resilience. "Diversity drives innovation- when we limit who can contribute, we in turn limit what problems we can solve." - Telle Whitney. This quote shows the importance of school supporting and inspiring us as young women to enter a STEM career."*

*"Helped to inspire and build confidence."*

*Mrs Honeyman, Associate Assistant Headteacher and Curriculum Leader for Science*

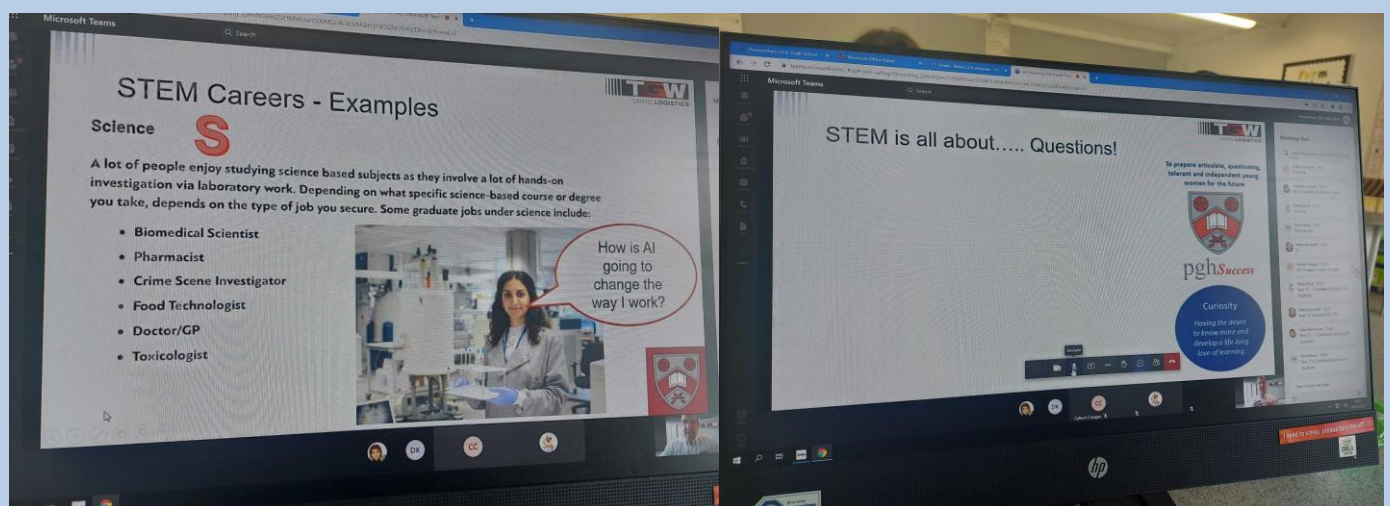
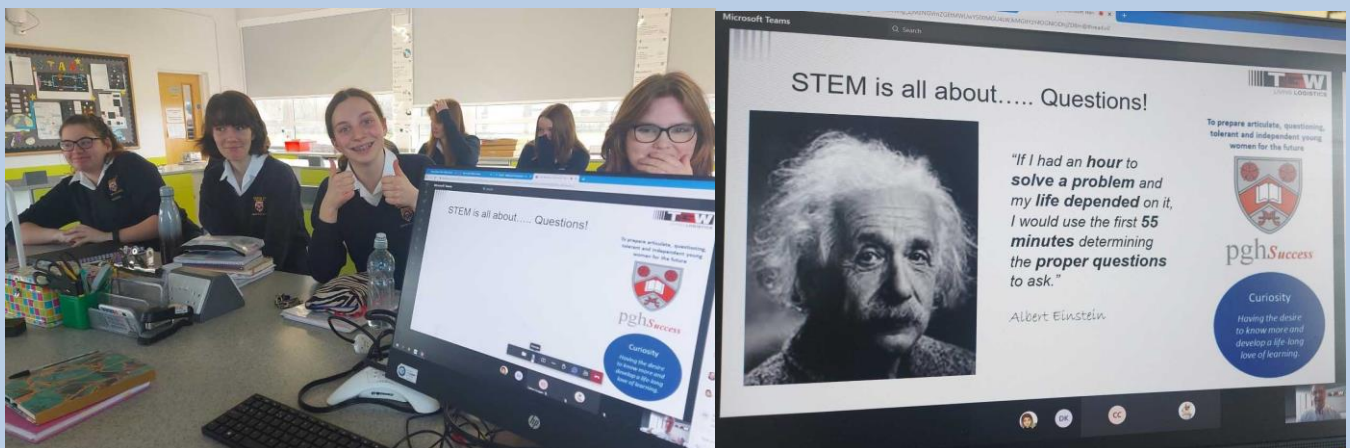
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## Live Zoom with Mr Bourne

During our STEM festival, Year 11 were fortunate enough to participate in a live zoom with Mr Bourne. Mr Bourne is a key account manager for TGW. He manages Engineering teams who support automated logistics solutions, including Robotics, conveyors, cranes and shuttles. Mr Bourne spoke about the importance of STEM and the skills needed to pursue a career in engineering. He made it very clear how STEM is all about problem solving and asking the right questions. This session helped to confirm some college pathways for our students who want to pursue engineering careers.



Mrs Honeyman  
Associate Assistant Headteacher and Curriculum Leader for Science

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## Dame Sue Ion Visit

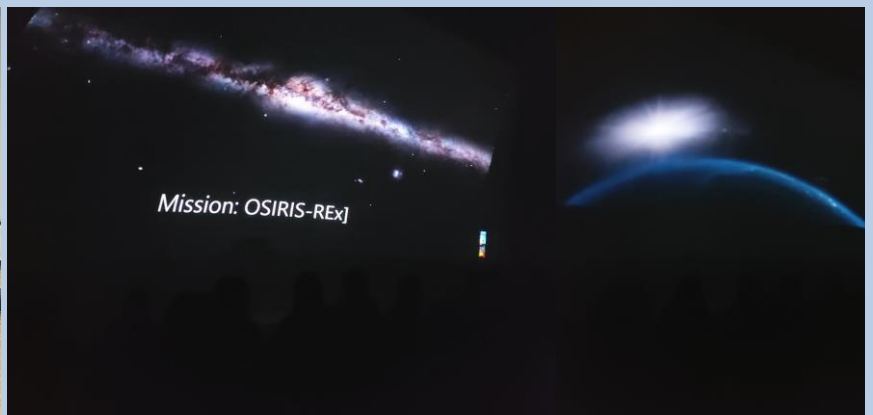


As part of STEM fortnight, former student, Dame Sue Ion delivered a presentation to girls in Year 10 and Year 11. She outlined her journey from her days in the school science lab to her international career in the field of nuclear energy. She has travelled extensively and advised many senior politicians on renewable and sustainable energy. Dame Sue has been involved in shaping the UK's energy policy for the future and has been a prominent figure in the UK nuclear industry for decades. It was a valuable opportunity for our girls to listen and learn from the experience of Dame Sue and we want to thank her for investing her time and taking part in the STEM festival.

*Mrs Hall*  
*Deputy Headteacher*

## Planetarium

Another amazing event during our STEM festival was the use of a mobile planetarium. Year 7 were lucky to have Dave from Auriga Astronomy bring in his mobile planetarium. They watched a 40-minute immersive show about the solar system. They got to explore the structure of the solar system, learn all about night and day, the moons and they saw the new pictures of Jupiter. The session was full of wonder and awe and left the pupils wanting to know more about the universe. They asked some excellent questions too! Is there anyone out there? Will there ever be?



*Mrs Honeyman*  
*Associate Assistant Headteacher and Curriculum Leader for Science*

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## Blackpool Zoo.

As part of the STEM festival, year 8 visited Blackpool Zoo. The girls didn't let a few rain showers dampen their mood and got to see many animals including lions, elephants, orangutans and some Cotton-Top Tamarins which a couple of girls would have liked to take home with them! One benefit of the inclement weather was that we had the zoo almost to ourselves at times.

Spending time at the zoo gave the pupils an opportunity to learn about the adaptations and habitats of lots of different animals, which will all come in useful when studying Ecology in GCSE Biology. It also gave them a greater appreciation of the pressures that some species are under, largely due to habitat destruction and the conservation work and breeding programs that zoos are involved in to try to preserve these endangered species.

The girls' behaviour was excellent and hopefully a good day was had by all!



*Mr Coogan*

*Science Department*

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## Blackpool Pleasure Beach. Year 9- The Science Behind Rollercoasters.

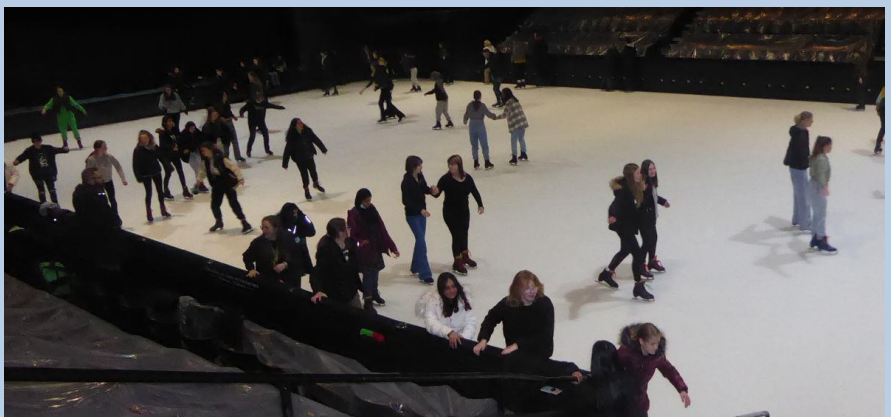
We started with an hour talk inside the Globe Theatre, where we were told all about the science and technology behind each rollercoaster available to the public. Our guide informed us about the g-force, informing us that the maximum that we can physically cope with is 4. If the force was to go any higher, you could potentially lose consciousness and your blood would rush to your feet and legs!

Additionally, we were all informed about the costs of each rollercoaster. 'The Icon' is estimated to have costed around £16.25 million and was officially opened in May 2018. Overall, this experience was very informative and really educated us all on all the work that goes on behind the scenes to make it possible for us to enjoy rollercoasters in our school holidays.

Next, we went to the Blackpool ice skating arena and we were allowed to ice skate for an hour with our friends. It was an extremely enjoyable experience. It was a new experience for a lot of us and a chance to try something new. The highlight was Mr Cafferkey who fell over due to being an unexperienced skater! Fortunately, he was absolutely fine after the incident.

To conclude, our entire year found it an enjoyable but educational trip out and we are grateful to Mr Cheal and Mr Cafferkey who made this trip possible for our year group. It is something none of us will ever forget. From the hilarious events that unfolded throughout the day to the academic factors of our trip, there was something for us all to learn and cherish.

*Chloe H, Georgia R, Emily*



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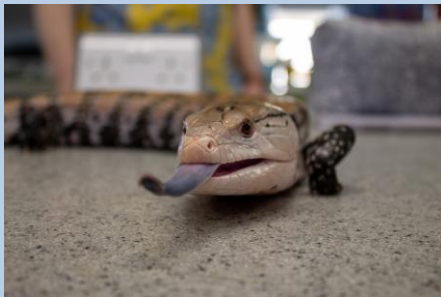
## Safari Phil and Spiky Dave!

Year 9 took part in a creepy crawly experience on Monday 7<sup>th</sup> March.

Safari Phil and Spiky Dave entertained the students with their wealth of knowledge and collection of the most interesting animals.

Students had the opportunity to handle a hissing cockroach, a whip scorpion, a giant African land snail, a blue tongued skink, a golden eyed stick insect and a royal python. I think it is fair to say that a lot was gained from the session and it was hugely popular! Students who were slightly apprehensive demonstrated such resilience and held animals that they didn't think they would. The royal python and stroking the tortoises were the favourites. The students asked plenty of questions which were capably answered by Dave and Phil. Members of staff also came up on their break to see the animals.

We look forward to welcoming them back again in the near future with some of the same and as promised by Phil, some different animals for students to learn about.



*Mrs Cahill  
Science Department*

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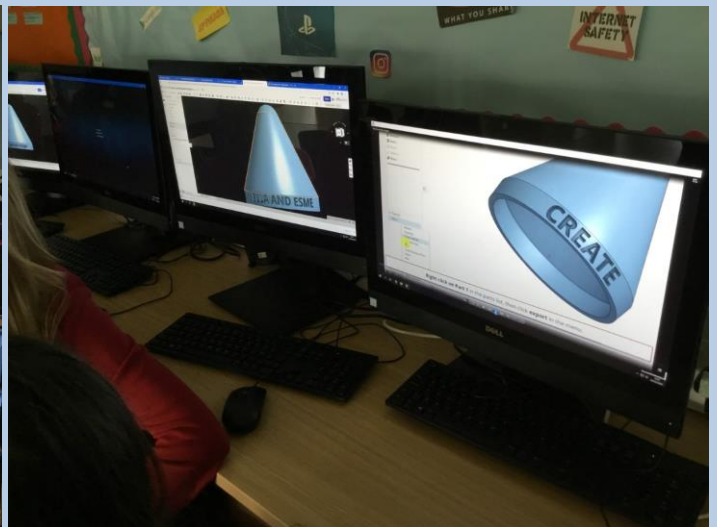


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## 3D Printing Workshop

On Friday 4<sup>th</sup> March, 60 year 8 students took part in a 3D printing workshop delivered by Create Education and sponsored by BAE systems.

The students used the 3D CAD software called 'On Shape' to design part of a rocket. The rockets were then 3D printed on our new Ultimaker printer, which has been given to the school as part of the initiative. They also tested some rockets outside. There were links made throughout the day to the fantastic career opportunities that 3D printing creates.



Mrs Gornall,  
Technology / STEM

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## Form Bunting Competition

During the STEM festival, each form was set the challenge of creating bunting to put on display. The students were given the theme of 'people who have changed the world'. There were some excellent pieces of work created with many famous scientists, technologists, engineers and mathematicians who have changed the world including, Bill Gates, Katherine Johnson, Albert Einstein, Marie Curie, Ada Lovelace and Jeff Bezos. It was a tough competition but I am pleased to announce the winning form with their Isaac Newton theme was 7RCH. Their bunting was colourful, creative and all members of the form contributed.



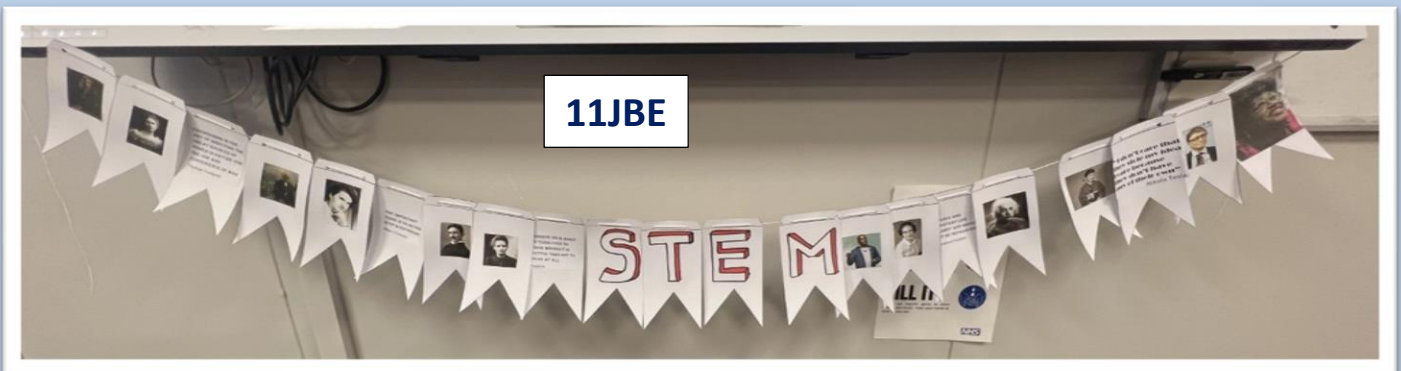
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Here are some more fantastic pieces of work that were created:



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## United Kingdom Mathematics Trust Intermediate Mathematical Challenge 2022



After two years of disruption, it was finally time on Wednesday 2<sup>nd</sup> February for our Year 9 and 10 students to take on the challenge of the UKMT Intermediate Mathematics Challenge 2022.

This national event presents a yearly challenge to students in Years 9 and 10, and takes the form of a multiple-choice quiz based on using mathematical skills learnt in lessons to problem solve.

Over 4000 schools across the UK take part in this event and the standard of participation is high. Only the best achieving students can receive an award and to do so is recognition of the effort and ability of our students.

This year's prize winners are as follows:

Jemima B (Year 9) – Best in School, Best in Year 9 and Silver Award

Lucy S (Year 10) – Best in Year 10 and Silver Award

Silver Awards were also achieved by the following students:

Maddison T (Year 10)

Alive W, Victoria K and Molly T (Year 9)

Bronze Awards were achieved by the following students:

Sophia H, Keira-Leigh R, Grace T, Elyse F, Jess F, Megan H, Hana M, Sian H, Amani P, Darcy P, Mia S, Olivia S, Sandra H and Amber I (Year 10)

Freya D, Abi C, Hannah B, Libby W, Jennah K and Tasneem A (Year 9)

Congratulations to all students involved! The department is very much looking forward to the new Mathematical challenges this year.

Some advanced dates for your diaries:

UKMT Junior Challenge (Years 7 and 8) – Wednesday 27<sup>th</sup> April 2022.

*Mr S Cheal*

*The Mathematics Department*

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## Lancaster University School of Mathematics (LUSOM) GCSE Maths revision sessions



### LANCASTER UNIVERSITY SCHOOL OF MATHEMATICS

Providing a world-class education to the most able maths students  
from all backgrounds.

As part of the continuing links with the Lancaster University School of Mathematics (LUSOM), students from year 11 have been invited to take part in a Year 11 Easter School.

#### **Year 11 Easter School**

This event will be held at Cardinal Newman College over 3 days between 10am - 1pm on the 4th, 5th and 6th April, with each day exploring a different topic. There will be puzzles, prizes and tips throughout the 3 days.

Day 1 - Algebra

Day 2 - Ratio & Proportion

Day 3 - Geometry

Students can attend all 3 sessions or select the topic that suits them best. For students that attend all 3, a name will be selected at random to win the star prize!

Students wanting to attend any of these sessions need to register their details by using the below link:

<https://go.cardinalnewman.ac.uk/form/lusomeasterschool>

*Mr Cheal*

*Mathematics Department*

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## Year 9- Escape Room

As part of the STEM festival, we were given the opportunity to take part in a virtual escape room in our Maths lesson. We were placed into teams of five and given a different problem in seven different 'rooms' in a school that we had to solve in order to escape.

Everyone began at the same starting point; solving a problem in the playground. For this task, we were given six different questions. For each one, we needed to remove a letter from a pair and this would give us a mathematical word. Once we found the six different words, we were given a key to allow us to begin working on a different type of problem at another location.

The rooms were scrambled for each team so everyone completed the puzzles in a different order. As some rooms were harder than others, we didn't know how we were doing until the very end.

After completing all the rooms, there was one final challenge which was to decode the key cards and answer three questions in order to win. Each of the key cards we had received had different clues on them. They helped us to answer the questions, but the hardest part was finding the clues. Fortunately, with some teamwork, we were able to solve the problem and 'escape'. Our team completed the challenge in the fastest time in our class. We were really proud of ourselves!

This was an exciting lesson, and it was really good working with different people in our class to solve different type of problems.

TOWER ESCAPE		PLAY GROUND						
Remove one letter from each pair to discover the word. Add the word to the list below								
1		V/R	A/E	C/M	L/T	T/O	R/P	
2		B/A	T/I	D/H	L/M	L/A	L/S	
3		M/S	E/A	D/C	I/B	E/A	N/P	
4		C/L	O/I	I/M	E/P	A/R	S/R	C/S
5		O/S	B/A	I/T	U/S	S/O	D/E	
6		A/B	F/N	G/T	R/L	I/E	S/C	
		What does BIDMAS Stand for?						



By Molly T and Hannah B (Year 9)

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## Geography News STEM Festival

The Geography Department organised a number of trips to coincide with the STEM Festival over the last couple of weeks. It was fantastic to be out and about “in the field” with students once again after all the past disruption due to the COVID pandemic .

### Year 11 GCSE Geography Field Trip to Bowland

In the first week of the festival, we took the opportunity to complete our GCSE field trip with our three Year 11 classes. As climate change brings more uncertainty to the UK weather, river flooding will be an issue for our islands for many years to come. As a result, another growth area with a STEM focus will be hydrology and flood management. Our trip to survey the River Calder to the north east of Garstang, gave pupils an insight into the work of hydrologists. We surveyed the depth, width, velocity and bedload of the river and calculated discharge from our data. Aside from a few wet socks, we came through the trip unscathed, although Mr Ward had a close call when chasing after one of our floats down the river! Thanks to the accompanying staff and to the students, who despite some poor weather, were full of enthusiasm and took their responsibilities to collect good quality data very seriously.



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## Year 10 – STEM Trip to Lancaster University

We were delighted that such a large number of Year 10 students took up the opportunity to visit one of the UK's top universities on Friday 11<sup>th</sup> March. They were shown a real insight into campus life and experienced how STEM-based work is set to play a vital role in energy security for the future. We were hosted by Professor Peter Wynn and Jon Turner, who along with a team of other academics and student ambassadors, gave us an insight into the work of the Earth Science and Engineering Departments. We were bussed off campus for a close up look at the university's wind turbine, which on a windy day (which Friday most certainly was!) can generate over 40% of the campus' energy demands. This growth industry offers huge potential for highly skilled jobs in the future.

Aside from the STEM focused elements of the day, we were given a tour of the campus. Our students seemed to really have their eyes opened about how a campus-based university operates; seeing inside a large lecture theatre, the library and the shops and facilities available. The sight of Greggs and Subway in particular, caused great excitement!

Thank you to the team at Lancaster University for hosting us, to the staff who attended and to our students who conducted themselves extremely well throughout the day. I hope some were inspired by both the STEM and university life.

*Mr Bowles, Curriculum Leader for Geography*

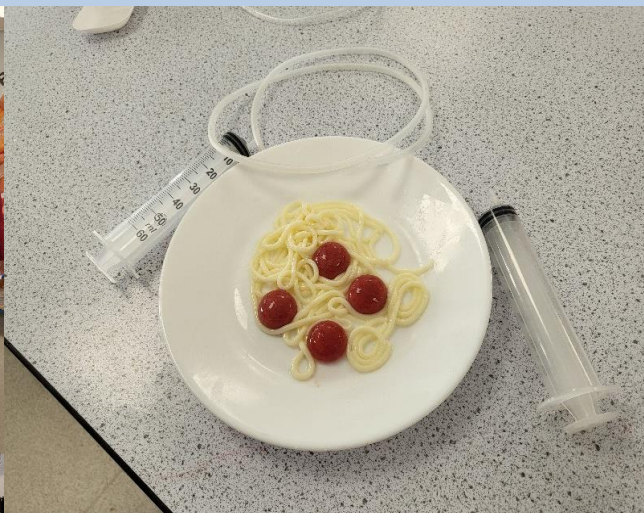
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## Chemical Cookery

Throughout the STEM Festival, each Year 8 class had the opportunity to have a cooking lesson with Mr. Dean. Mr. Dean talked about his time as a chef and how he used molecular gastronomy to make his dishes more interesting. We had to recreate spaghetti and meatballs, but we used white chocolate for the spaghetti and raspberry domes for the meatballs. We were teamed in groups of four or five and after the demonstration, we got straight to it. Overall, we all found the lesson really fun (even if some of the dishes didn't work too well) and it was a great break from our usual lessons! The spaghetti and meatballs tasted great, although the texture was slightly weird! We had to use different chemicals like sodium alginate, calcium lactate and agar agar. The sodium alginate and calcium lactate react together and form a gel. This allows a membrane to form around the raspberry juice and give a pop when bitten into! The agar agar is a setting agent, and when heated enough, allows for heat stable jellies to be made. This allows the spaghetti to be made using tubes and syringes!



*Mr Dean, Science Department*

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## PGHS Presents - "The Chase"



During week 1 of the STEM Festival, there was a definite buzz around school during the lunchtimes! This was all due to the 'The Chase!'

Could a team of 5 students beat the chasers? YES! Each group had their own designated day to compete against a surprise chaser! They would either face –

"The Codebreaker" (Mrs Bennet). So good at computing that she could break the enigma code in 1 hour.

"The Alchemist" (Mr Coogan). So good at chemistry, the tears of his victims can neutralise acid.

"The Ancient One" (Mr Bretherton). He likes ancient history so much because this was the last time his football team, Everton last won a trophy!

"The Grandmaster" (Mr Ward). He is so passionate about geography, he sleeps with an ordinance survey map next to his bed.

"The Equalizer" (Mr McVey). He is so amazing at maths, he dresses as a calculator for fancy dress parties.

All the students gave an excellent account of themselves and the audience were right behind them! (Some of the audience thought they were on 'Who wants to be a millionaire!')

The year 8s and 9s managed to beat "The Ancient One" and "The Equalizer" respectively. The year 11s left "The Grandmaster" for dead! Unfortunately, "The Codebreaker" and "The Alchemist" prevailed against the Year 7s and Year 10s! Here's what some of our contestants thought of the show:

Chloe E - "The Chase was so much fun! We answered a bunch of questions about STEM and won against our chaser, Mr Bretherton. There were five of us up against the Chaser. Three of us got through to the second round, where we beat the chaser nine to seven. It was a great experience to try and beat our teacher in the STEM subjects."

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Libby W – “On Monday the 7<sup>th</sup> Of March, five year nine students participated in a student vs teacher Chase activity as part of the STEM festival. Each form nominated a contender and many of the year (and some teachers!) came to cheer them on against their chaser, Mr McVey. Firstly, each girl went head-to-head with the Chaser and had to answer questions all related to STEM. If they got it right, they moved one step closer to safety.

However, if Mr McVey got it right, he moved one step closer to catching them. At the end of the round, four of the girls had beat the Chaser! In the next and final round, the four remaining girls had to answer as many questions as they could in two minutes. After a four-point head-start, the girls ended the two minutes with a total of thirteen points! The Chaser went next but with only nine points, he lost to the year nines. All the girls enjoyed the event and participated very well and the rest of the year were very good supporters.”



Mr Dean  
Science Department

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## PGHS Presents 'The Chase' – Year 9 vs 'The Equaliser'!

During the PGHS STEM Festival, each year group has enjoyed taking part in PGHS' very own, nail-bitingly thrilling version of 'The Chase'. With Mr Dean as the host, demonstrating his Bradley Walsh-like wit, a crack team of year nine pupils; Abi C, Charlotte R, Libby W, Maisie W and Molly T battled against their allocated Chaser, 'The Equaliser' (AKA Mr McVey). The first round involved each member of the team going head-to-head with the Chaser, answering questions about Science, Maths and Geography to stay in the game and make it through to the 'final chase'. With great skill, accuracy and nerves of steel, four of the team made it to the climax. The final round was a tense affair, with our year 9 heroes again displaying an unshakeable resolve in posting a very challenging target of 13. Despite a valiant effort, 'The Equaliser' could only manage 10 correct answers in the allotted time to chase the team down and was comprehensively beaten, much to the delight of the partisan crowd!

Well done to year 9 for successfully beating the Chaser!

*Jenna K, 9RMV.*



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## The PGHS Big STEM Quiz!

On the last Friday of the STEM festival, every form took part in the Big Quiz! It was done on Blooket as a Battle Royale. Each form was randomly selected to go against another form.

With only 10 lives per form, it was imperative that they were to answer correctly. However, accuracy wasn't the only thing that teams needed, they had to be quick on the button and answer in the fastest time to become champions.

Cheers and boos could be heard all over the school and we even had a bit of friendly banter between forms! In the end though, it was 10SCH who triumphed beating 11DKN in the final duel. They answered their question 0.066 seconds quicker and were crowned the champions! 11DKN also won the accuracy prize as they got 87% of their questions correct! Special mention should also go to 10CGE. They were a very depleted side due to a school trip (there was only 2 students left) and they managed to finish 6<sup>th</sup> with an accuracy of 83%!

Well done to all forms for competing! I'll make sure you receive your prizes soon!

71% Correct		10SCH	<div><div>17</div><div>7</div></div>	15 Wins
87% Correct		11DKN	<div><div>20</div><div>3</div></div>	14 Wins
75% Correct		11JBE	<div><div>18</div><div>6</div></div>	13 Wins
71% Correct		9GMO <3	<div><div>17</div><div>7</div></div>	12 Wins
67% Correct		11mbr	<div><div>16</div><div>8</div></div>	12 Wins
83% Correct		10CGE	<div><div>20</div><div>4</div></div>	12 Wins

Mr Dean  
Science Department

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## Step into the NHS Competition



During the STEM festival, 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 appealed to them and then create a job description and a job advert to promote their chosen career.

### Here is the competition brief:

There is much more to working for the NHS than being a doctor or nurse. In fact, there are more than 350 different careers in the NHS and with that many careers on offer, there's a job to suit you no matter what your interests and skills are.

That's where the 'Step into the NHS' competition comes in. We want you to choose an NHS career that interests you and create a job description and an advert to tell your friends and other young people about; make it appealing in a lively, engaging and creative way!

**If you haven't already, please make sure that you submit your entry to your teachers ASAP.**

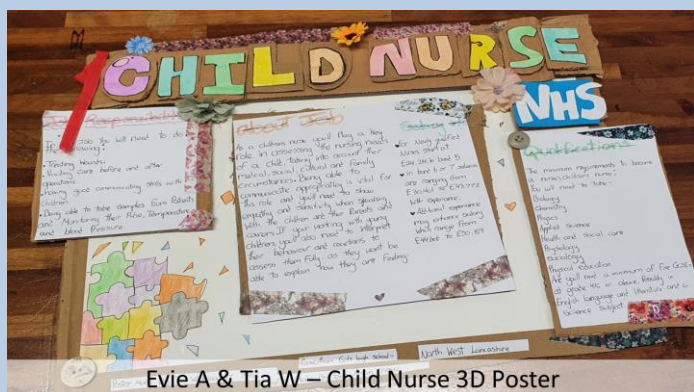
Here are some fantastic examples of the job advert:



Rihanna M & Mubashira I – Drama Therapist Puppet Show



Jess O, Jess M, Phoebe D & Molly B – Neurosurgeon Role Play



Evie A & Tia W – Child Nurse 3D Poster

### The prizes:

#### National winner

The overall winner(s) will each receive a £50 Amazon voucher and a prize for their school.

#### Regional winners

Nine regional winners will each receive an Amazon voucher worth £25.

**Good luck! We look forward to seeing your entries.**

*Miss Forrest, Science Department*

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Faraday Challenge

All Year 8 students were involved in a fantastic STEM filled day, taking part in the IET Faraday Engineering Challenge. This gave the students the opportunity to create a solution for a real-world challenge, based this year on designing an attraction for a theme park. They had to use electronics and even had to do an engineering apprenticeship in order to complete the day. The students worked in teams and each person had a specific role, such as a project manager and an accountant, as well as a lead designer and an engineer. Four teams were then chosen at the end of the day to compete in the national competition, hosted at our school, the following week.

### *Student comments:*

"On the 8th of March 2022, Penwortham Girls' High School participated in the Faraday Challenge as a part of the STEM Festival (science, technology, engineering and mathematics). The year 8s worked in their forms and came up with a solution to a problem for a ride at a theme park that included an electrical component. I think all of us could agree that it was a very fun day and a good chance to get involved and learn about job opportunities that are linked to science, technology, engineering and mathematics. I personally found it very enjoyable and a chance to improve my confidence talking to others and inputting my ideas."

Elizabeth N

"Last Wednesday, each form took part in a STEM related project. Ours was all to do with engineering. I really enjoyed working as a team, and I loved it when my team won! I felt it was a good way for us all to learn some new skills and do something different to our normal day to day school life. I think it was great for everybody in the team to take on a different role and come out of their comfort zone, so we all had something to give to our project."

Faye G

Ms Watkins  
CAT Faculty



Friday 18<sup>th</sup> March  
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Penwortham Girls'  
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## STEM Cinema

Year 7 students were given cinema tickets to access to the schools' very own cinema (aka the school hall). The atmosphere was set with dim lighting and a large popcorn machine. Year 7 spent the morning in the hall watching the film, 'Big Hero Six', which linked to the STEM festival.

"On the Thursday morning, we watched a STEM movie in the hall to support our STEM fortnight. The movie we watched was 'Big Hero Six'. It contained robots and engineering, so it was a good movie and very inspiring."

*Year 7 student*



*Miss Scott*  
*Teacher of Food Preparation and Nutrition*

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School



## Classes Clone Cauliflowers

During the STEM festival, year 9 students learned how micropropagation techniques were being used by plant scientists at the Royal Botanical Gardens, Kew to germinate rare seeds and clone critically endangered plant species. The girls learned about the vital work carried out by plant scientists to help reduce the decline in global biodiversity and used similar techniques to clone cauliflowers. The girls selected tiny explants from cauliflower florets that contained many pluripotent stem cells. They then used aseptic technique to plant a sterilised explant into nutrient rich agar. The practical session may not have helped to conserve any rare plant populations but we may have a bumper crop of cauliflowers later this year and any budding plant scientists or horticulturists have developed some skills that may be useful in a future STEM career.

*Mr Knee  
Science Department*

## Jeans for Genes

Thank you to all students and staff who wore something denim for 'Jeans for Genes' day. We raised over £550 for the Jeans for Genes charity!

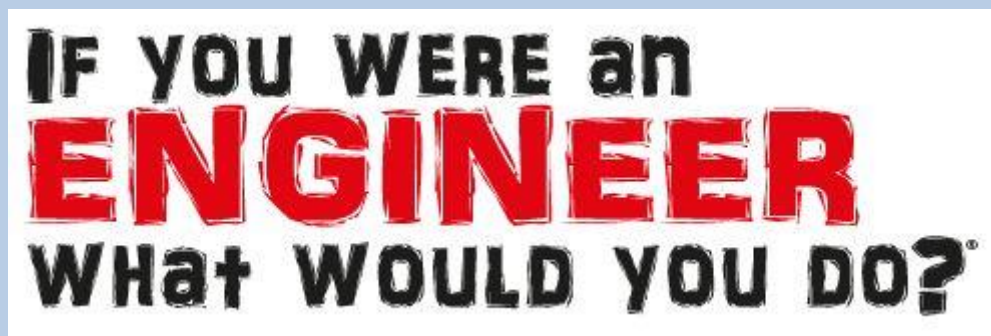


Friday 18<sup>th</sup> March  
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Penwortham Girls'  
High School

## 'If You Were an Engineer, What Would You Do?' Leaders Award competition



Dr. Kate McAulay



Year 10 are taking 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. In the first lesson, the students watched videos showing the different engineering jobs that are available, that also showed that no matter who you are or what your background is, you can do engineering.

In the next lesson, the students had to interview an engineer, a key requirement of the competition. Year 10 interviewed Dr Kate McAulay from Glasgow Caledonian University. Dr McAulay gave a very honest talk about her experiences in the world of STEM and gave good advice for the students to never give up if you have a dream.

"It was amazing to interview Dr Kate McAulay. It gave me a great insight into her job and the workplace of engineering." (Isabel, Year 10)

"We had an interview with Dr Kate, who was talking about what it is like to be an engineer. Something that inspired me from her was no matter if you fail in you're A-Levels or your Master's degree, you can always reach where you want to be. Also, no matter if you are a man or a woman, you can do what makes you feel right." (Amandeep Year 10)

In the final couple of lessons, the students had to identify a problem and then design their solution, taking inspiration from previous winners in the competition. All the teachers were impressed with the engagement of the students and the fantastic ideas being created.

All the students that enter the competition will have their design graded by an engineer and will receive a certificate. Shortlisted entries will then be put forward to a panel where the best ideas will be celebrated at an awards event and exhibited in a public exhibition in the summer term.

One extraordinary part of the competition is that every year university teams choose an idea from the shortlisted entries to build!

Fingers crossed and good luck, Year 10!

*Mrs Goodwill, Science Department*

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## South Ribble Football Tournament



Congratulations to our Year 7 and 8 Football Team who came 3rd at the South Ribble Football Tournament! It was great to see the fantastic level of football skills across the South Ribble Borough and how our girl's football is developing. We should thank Mrs Finnigen for her hard work in establishing football so well in the past couple of years. We have many football talents across the school who were selected for the South Ribble team and we are aiming to participate in more competition across the county. Good Luck, girls! Keep working hard!

Team players: Chloe W- Chloe M- Holly L- Grace D- Neve H- Zara H- Evie F- Evie H and Tess S.

Players' Player: Evie F, Chloe W

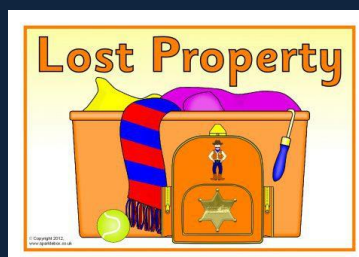
Coach's players: Holly L, Grace D

*Miss Shahi*

*Performance Sport and Health Faculty*

## Lost Property

***We have a number of items in lost property, especially winter jackets. The lost property box will be available at break and lunchtimes in the dining room. Please can students check the box if they have lost anything recently in school.***



Friday 18<sup>th</sup> March  
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Penwortham Girls'  
High School

## Brilliant Behaviour

This week, I'm paying tribute once again to the PGHS Class Charts stars! These students are in the top 20 from across the whole school and are notching up a very impressive number of positive points.

Getting an average of 5 or more positive points every week means that these students are working hard across all their subjects and being recognised for it by all their teachers. Maintaining this level of consistent enthusiasm for learning requires commitment and dedication and deserves special credit.

These students are well on their way to Ward Awards and Ramsdale All Rounders!

Caitlin T  
Hadia M  
Jennah K  
Summer L  
Saskia H  
Vidhya P  
Naomi S  
Molly T  
Rosie Y  
Evie F  
Savo A  
Faye S  
Abeeha F  
Sundas A-L  
Sana H  
Jemima A  
Fatima Z K  
Zoha I  
Hannah S  
Jennifer K



Well done to all these students and I look forward to new names appearing on a similar list in the future.

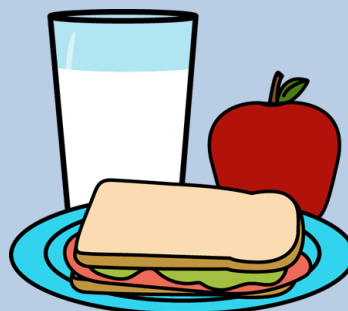
*Mr Ramsdale*  
*Senior Assistant Headteacher*

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Lunch Menu Week Commencing 22<sup>nd</sup> March (Week 1)



High School Spring/Summer 2021 Menu

Week 1	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Traditional Choice Meal Deal</b>	Brunch Pork or Veggie Sausages Free Range Omelette Hash Browns & Baked Beans	Crispy Fish Fillet Burger with Crispy Paprika Potatoes & Mixed Vegetable Medley	Roast of the Day with Traditional Trimmings Creamy Mashed Potatoes & Seasonal Vegetables	Chicken & Leek Pie with Baby Baked Potatoes Broccoli Florets & Carrots Batons	Crispy Battered Fillet of Fish with Chips & Mushy Peas
<b>Global Choice Meal Deal</b>	Spaghetti Neapolitan with Garlic Dough Balls & Green Leaf Salad	Chicken Tikka Curry with Turmeric Rice & Coriander Naan	BBQ Pork or Veggie Meatball Sub Roll with Cajun Potato Wedges & Mixed Salad	Chilli Beef with Cheesy Nachos & Tomato Salsa	Thai Vegetable Curry with Lemon & Coriander Rice
<b>Vegetarian Choice Meal Deal</b>	Lancashire Butter Pie with Vegetarian Gravy Broccoli Florets & Sliced Beetroot	Spanish Tortilla with Crispy Paprika Potatoes & Mixed Salad	Vegetable Lasagne with Garlic Bread & Green Leaf Salad	Cheese & Onion Loaded Potato Skins with Homemade Coleslaw & Mixed Salad	Homemade Margherita Pizza with Chips & Mixed Salad
<b>Meal Deal Sandwich or Baked Potato</b>	Choice of Hot or Cold filled Sandwich or Choice of filled Baked Jacket Potato with Mixed Salad	Choice of Hot or Cold filled Sandwich or Choice of filled Baked Jacket Potato with Mixed Salad	Choice of Hot or Cold filled Sandwich or Choice of filled Baked Jacket Potato with Mixed Salad	Choice of Hot or Cold filled Sandwich or Choice of filled Baked Jacket Potato with Mixed Salad	Choice of Hot or Cold filled Sandwich or Choice of filled Baked Jacket Potato with Mixed Salad
<b>Desserts of the Day</b>	Apple Pie & Cream	Peach Melba & Raspberry Sauce	Chocolate & Mandarin Sponge & Custard	Jam & Cream Scone	Lemon Drizzle Cake
	Chocolate Muffin	Lemon Shortbread	Raspberry Bun	Chocolate Cookie	Flapjack
	Fresh Fruit or Fruit Yoghurt	Fresh Fruit or Fruit Yoghurt	Fresh Fruit or Fruit Yoghurt	Fresh Fruit or Fruit Yoghurt	Fresh Fruit or Fruit Yoghurt

# Newsletter

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

breakfast and morning break

## Your menu

**expresscofe**

Cereals & Fresh Milk	60p	Boiled/ Scrambled or Poached Egg	35p
Hot Buttered Toast	25p	Egg/ Beans or Cheese on Toast	70p
Buttered Crumpet	40p	Baked Hash Brown	40p
½ Plain Bagel	40p	Sausage Barm	£1.20
Fruit Teacake	40p		

**Pizza and Garlic Bread (morning break only)**

Freshly Baked Pizza	£1.00	Freshly Baked Pizza with Topping (1/2 Portion)	70p
Freshly Baked Pizza (1/2 Portion)	60p	Homemade Garlic Bread	70p
Freshly Baked Pizza with Topping	£1.15	Homemade Cheesy/ Tomato Garlic Bread	75p

**Drinks**

Tea	40p
Coffee	50p
Hot Chocolate	50p
Fruit Juice	from 65p

**Extras**

Fruit Yoghurt	45p
Frozen Yoghurt or Smoothie	50p
Piece of Fresh Fruit	30p
Fresh Fruit Bags/ Fruit Salad	70p
Large Fresh Fruit Salad	£1.00
Sauce Sachet	from 10p
Flora Portion	15p

faster fresher fitter

**Lancashire**

County Council

[www.lancashire.gov.uk](http://www.lancashire.gov.uk)

cold deli

## Your menu

**expresscofe**

**Freshly Made Sandwiches**

Regular Range - Plain Egg, Cheese, Ham, Tuna £1.20

Premium Range - Any other Fillings £1.70

Filled Baguettes, Wraps and Speciality Breads £1.95

Add Salad to any of the above 15p

Pasta Salad Pots from £1.20

Fresh Salad Pots from £1.20

Plated Salads from £1.55

\* Please see separate tariff for our speciality range of sandwiches

**Drinks**

Calypso Aquajuce 330ml	75p
Calypso Aquajuce Carton 200ml	50p
Milk Carton 850ml	45p
Fruit Slush 7oz	90p
Fair Trade Fruit Juice Carton 200ml	70p
Water 330ml	65p
Water 500ml	80p
Radnor Fruit Still Water	90p
Radnor Fruit Fizz	75p
Tropicana Fruit Juice 180ml	95p
Tea	40p
Coffee	50p
Hot Chocolate	50p

**Sandwich Meal Deal**

Add up to 3 pick and mix items to enjoy a great value meal deal!

**only £2.30**

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**Lancashire**

County Council

[www.lancashire.gov.uk](http://www.lancashire.gov.uk)

hot counter

## Your menu

**expresscofe**

**Main Meals**

Served with Accompaniments

**only £2.00**

**Main Meal Deal**

Served with Hot Dessert and Sauce or Piece of Fruit of Yoghurt or Carton of Juicy Water

**only £2.30**

Crispy Battered Fish	£1.20	Fish Fingers x3	£1.20
Baked Fishcakes x2	£1.20	Veggie Burger	£1.00
		Meat Free Sausages x2	£1.00
		Freshly Baked Omelette	£1.00
		Homemade Soup 7oz with Crusty Bread	65p
		Homemade Soup 12oz with Crusty Bread	90p
		Baked Jacket	75p
		Baked Jacket with 1 filling	from £1.00
		Baked Jacket with 2 fillings	from £1.50

**Snacks to Go**

Burger in a Bun	£1.80
Hot Sandwiches and Filled Panini	from £2.00
Hot Baguettes and Wraps	£2.00
Homemade Margherita Pizza	£1.00
Add Extra Toppings	from 15p
Homemade Garlic and Herb Bread	70p

Homemade Garlic and Herb Bread ¼ Portion	40p
Homemade Cheesy/ Tomato Garlic Bread	75p

**Extras**

Chips/Fries/Wedges/ Hash Browns	£1.10
All Other Potato Choices	65p
Fresh Vegetables/Side Salads/Baked Beans	45p
Rice/Pasta/Noodles	65p

faster fresher fitter

**Lancashire**

County Council

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School



## Independent Careers Adviser

*Shamim Khan*

Available for 1:1 Careers Appointments & Drop In sessions in  
The Careers Room

### Drop In sessions Times:

Morning : 8.30am to 9.10am  
Lunchtime : 12.30pm to 1.20pm

### Careers Adviser Dates:

March 2022	Wednesday 2 <sup>nd</sup> March 2022 Thursday 3 <sup>rd</sup> March 2022 Wednesday 9 <sup>th</sup> March 2022 Wednesday 16 <sup>th</sup> March 2022 Wednesday 30 <sup>th</sup> March 2022
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If you would like a 1:1 appointment, please email:

[careers@penworthamgirls.lancs.sch.uk](mailto:careers@penworthamgirls.lancs.sch.uk)

Registered Professional Careers Practitioner/Member



Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Head's Breakfast

Jessica W and Sazan A (Year 9)

Well done for the buddy away forms.

Bismah C (Year 9)

Outstanding newspaper article on 'Religion in the Pandemic.' (RE)

Isabel P (Year 9)

For showing confidence and being articulate when expressing pupil voice.

## Head's Commendations

Sophie S (Year 8)

Great newsletter written for the STEM Festival. Thank you very much! (Science)

Cassie F B (Year 8)

For producing an excellent personal sketchbook on illustration. (Art and Design)

Olivia N (Year 8)

Winner of the STEM Big Fix group competition for STEM week. Well done!

Phoebe B (Year 8)

Winner of the STEM Big Fix group competition for STEM week. Well done!

Lydia W (Year 8)

Outstanding animal testing essay. (RE)

Hattie C (Year 8)

Outstanding philosophical essay on 'Are Religions just a way to Control People?' (RE)

Neve H (Year 8)

Outstanding persuasive speech written for Sikhism assessment. (RE)

Eden F (Year 8)

Outstanding persuasive speech written for Sikhism assessment.



Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Sports, Clubs & Societies – Year 7

YEAR 7 SPORTS, CLUBS AND SOCIETIES					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<b>MORNING</b>	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room* Rm 7 KMG	Quiet room * Rm 7 AHA
<b>LUNCH</b>	Geography society Rm 39 GBO  Cooking society Rm 23 SSC  Computing society Rm 50 JBE  Table tennis Gym MSH  BASKETBALL Courts KFI  Product design Rm 36 LGO	Choir Rm 11 VLI  Athletics Gym KFI  Cross country Courts MSH  Brass Group Rm 15 ACA  DEBATE club Rm 1 CWO  MATHS HEGARTY Club Rm 50 RMV/RCA/SHS	Science club Rm 47 GFO  Keyboard/Ukulele club Rm 15 ACA  French and German film society Rm 26 KGI  Cheer Gym RSN  Circle time * Rm 6 DEM	Woodwind group Rm 15 ACA  Soroptimists Rm 30 MBR  Badminton Gym MSH  Ultimate frisbee Courts SNA  Hw Club * Rm 35 LVE  Mfl spelling bee Rm 26 CGE	Chess society Rm 39 BWA  Orchestra Rm 15 ACA  History society Rm 37 JBR  Multi-sport Gym KFI  Craft society Rm 1 DEM & RLU  MINDFULNESS CLUB* Rm 6 KMG  BEDROCK CLUB (+ English Support) Library CWO & DSN
<b>AFTER SCHOOL</b>	STEM Rm 34 RFR/PDE/SCH  NETBALL Courts SNA, MSH & KFI	DRAMA SOCIETY Hall AGA & GST  DANCE CLUB Dance studio SNA  HANDBALL Courts MSH  BADMINTON Gym KFI	GYMNASTICS Gym MSH  FOOTBALL Courts KFI	HOCKEY Courts RWO  CRICKET TBC	

\* INVITE ONLY

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Sports, Clubs & Societies – Year 8

YEAR 8 SPORTS, CLUBS AND SOCIETIES					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room* Rm 7 KMG	Quiet room * Rm 7 AHA
LUNCH	Computing society Rm 50 JBE Table tennis Gym MSH BASKETBALL Courts KFI Product design Rm 36 LGO	Athletics Gym KFI Cross country Courts MSH Circle time * Rm 1 NBY Brass Group Rm 15 ACA DEBATE CLUB Rm 1 CWO MATHS HEGARTY Club Rm 50 RMV/RCA/SHS	Science club Rm 47 GFO Keyboard/Ukulele club Rm 15 ACA French and German film society Rm 26 KGI Cheer Gym RSN	Woodwind group Rm 15 ACA Soroptimists Rm 30 MBR Badminton Gym MSH Ultimate frisbee Courts SNA Hw Club * Rm 35 LVE Choir Rm 15 VLI	Chess society Rm 39 BWA Orchestra Rm 15 ACA History society Rm 37 JBR Multi-sport Gym KFI Craft society Rm 1 DEM & RLU BOOK CLUB Rm 4 DSN MINDFULNESS CLUB* Rm 6 KMG BEDROCK CLUB (+ English Support) Library CWO & DSN
AFTER SCHOOL	STEM Rm 34 RFR/PDE/SCH NETBALL Courts SNA, MSH & KFI	DRAMA SOCIETY Hall AGA & GST DANCE CLUB Dance studio SNA HANDBALL Courts MSH BADMINTON Gym KFI	GYMNASTICS Gym MSH FOOTBALL Courts KFI	HOCKEY Courts RWO CRICKET TBC	

\* INVITE ONLY

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Sports, Clubs & Societies – Year 9

YEAR 9 SPORTS, CLUBS AND SOCIETIES					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room* Rm 7 KMG	Quiet room * Rm 7 AHA
LUNCH	Table tennis Gym MSH BASKETBALL Courts KFI Circle time * Rm 6 LDA Product design Rm 36 LGO	athletics Gym KFI Cross country Courts MSH Brass Group Rm 15 ACA DEBATE CLUB Rm 1 CWO MATHS HEGARTY Club Rm 50 RMV/RCA/SHS	Keyboard/Ukulele club Rm 15 ACA French and German film society Rm 26 KGI	Woodwind group Rm 15 ACA Soroptimists Rm 30 MBR Badminton Gym MSH Ultimate frisbee Courts SNA Hw Club * Rm 35 LVE Choir Rm 15 VLI ANIME SOCIETY Rm 53 GMO	Chess society Rm 39 BWA Orchestra Rm 15 ACA History society Rm 37 JBR Multi-sport Gym KFI DANCE Dance Studio SNA BOOK CLUB Rm 4 DSN MINDFULNESS CLUB* Rm 6 KMG BEDROCK CLUB (+ English Support) Library CWO & DSN
AFTER SCHOOL	STEM Rm 34 RFR/PDE/SCH NETBALL Courts SNA, MSH & KFI	DRAMA SOCIETY Hall AGA & GST HANDBALL Courts MSH BADMINTON Gym KFI	GYMNASTICS Gym MSH Cooking society Rm 23 SSC TEAM CHEER Hall RSN FOOTBALL Courts KFI	HOCKEY Courts RWO CRICKET TBC	

\* INVITE ONLY

Friday 18<sup>th</sup> March  
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Penwortham Girls'  
High School

## Sports, Clubs & Societies – Year 10

YEAR 10 SPORTS, CLUBS AND SOCIETIES					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
MORNING	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room* Rm 7 KMG	Quiet room * Rm 7 AHA
LUNCH	Table tennis Gym MSH  BASKETBALL Courts KFI  Product design Rm 36 LGO  Study room* Rm 11 SIB & LRI	Athletics Gym KFI  Cross country Courts MSH  Brass Group Rm 15 ACA  DEBATE CLUB Rm 1 CWO  MATHS HEGARTY Club Rm 50 RMV/RCA/SHS  Poet laureate Rm 5 GST	Keyboard/Ukulele club Rm 15 ACA  French and German film society Rm 26 KGI  Hw Club * Rm 35 SPK	Woodwind group Rm 15 ACA  Soroptimists Rm 30 MBR  Badminton Gym MSH  Ultimate frisbee Courts SNA  Choir Rm 15 VLI  ANIME SOCIETY Rm 53 GMO	Chess society Rm 39 BWA  Orchestra Rm 15 ACA  Multi-sport Gym KFI  DANCE Dance Studio SNA  Study room* Rm 11 SIB & LRI  MINDFULNESS CLUB* Rm 6 KMG  BEDROCK CLUB (+ English Support) Library CWO & DSN
AFTER SCHOOL	STEM Rm 34 RFR/PDE/SCH  NETBALL Courts SNA, MSH & KFI	DRAMA SOCIETY Hall AGA & GST  HANDBALL Courts MSH  BADMINTON Gym KFI  TEXTILES Rm 34 RFR  Product design Rm 36 LGO	GYMNASTICS Gym MSH  Ks4 Art society Rm 52 LGE  TEAM CHEER Hall RSN  FOOTBALL Courts KFI	MUSIC STUDIO TIME Music studio MOW  HOCKEY Courts RWO  CRICKET TBC	Ks4 PHOTOGRAPHY society Rm 53 GMO

\* INVITE ONLY

Friday 18<sup>th</sup> March  
2022



Penwortham Girls'  
High School

## Sports, Clubs & Societies – Year 11

### YEAR 11 SPORTS, CLUBS AND SOCIETIES

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
<b>MORNING</b>	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room * Rm 7 AHA	Quiet room* Rm 7 KMG	Quiet room * Rm 7 AHA
<b>LUNCH</b>	Table tennis Gym MSH BASKETBALL Courts KFI Product design Rm 36 LGO Study room* Rm 11 SIB & LRI	athletics Gym KFI Cross country Courts MSH Brass Group Rm 15 ACA DEBATE CLUB Rm 1 CWO MATHS HEGARTY Club Rm 50 RMV/RCA/SHS	Keyboard/Ukulele club Rm 15 ACA French and German film society Rm 26 KGI Hw Club * Rm 35 SPK GCSE Dance Dance Studio SNA	Woodwind group Rm 15 ACA Soroptimists Rm 30 MBR Badminton Gym MSH Ultimate frisbee Courts SNA Choir Rm 15 VLI ANIME SOCIETY Rm 53 GMO	Chess society Rm 39 BWA Orchestra Rm 15 ACA Multi-sport Gym KFI Study room* Rm 11 SIB & LRI MINDFULNESS CLUB* Rm 6 KMG BEDROCK CLUB (+ English Support) Library CWO & DSN
<b>AFTER SCHOOL</b>	STEM Rm 34 RFR/PDE/SCH NETBALL Courts SNA, MSH & KFI	DRAMA SOCIETY Hall AGA & GST HANDBALL Courts MSH BADMINTON Gym KFI TEXTILES Rm 34 RFR	GYMNASTICS Gym MSH Ks4 Art society Rm 52 GMO FOOTBALL Courts KFI	MUSIC STUDIO TIME Music studio MOW HOCKEY Courts RWO CRICKET TBC	Ks4 PHOTOGRAPHY Society Rm 53 GMO