

Friday 18th June
2021



Penwortham Girls'
High School

Important Dates:



21st June to 9th July
**Festival of Performance
and the Arts**

25th June
Year 7 Passport Walk

29th June
Year 8 Passport Walk

1st July
Sports Day

5th July
Year 9 Passport Walk

8th July
Year 10 Passport Walk

16th July
**Closure for Summer
Break**

19th and 20th July
INSET DAYS

Snapchat Virtual Online Workshop as Part of Empathy Week

On Friday evening, six students of the Respect Council at Penwortham Girls' High School and their teacher took part in a Snapchat Virtual Online Workshop, one of only five schools in the world to have been selected for the event.

The girls were given the special opportunity to work alongside Snap Inc.'s creative team and a creator for Disney. They were introduced to augmented reality and created their own lens (filter). The workshop focused on using a snapchat lens to promote empathy and the understanding of others. These girls will also be sharing their expertise with the wider school council so that they can work collaboratively and use social media to promote the school's core values, such as social responsibility and compassion.

The students, Mrs. Hall (Deputy Head) and Mrs. Bennett (Curriculum Leader and Lead Teacher of Computing and ICT), were invited to take part in the event as a result of the Respect Council's participation in Empathy Week, which was held nationally during February this year. As well as giving the girls technical skills, it is a fantastic opportunity and provides an insight into one of the largest companies in the world - the people behind Snap Inc.

Mrs. Bennett said, "We were invited to take part in the Snapchat online workshop, and it was an opportunity not to be missed; to be one of five schools worldwide to be selected to be part of this workshop was incredible. The virtual online workshop was hosted by Snap Inc. based in Los Angeles. Students were shown how to create their very own Snapchat lens (filters). The girls thoroughly enjoyed the experience and are looking forward to sharing their skills with others.



Mrs Bennett, Curriculum Leader and Lead Teacher of Computing and ICT, Working with augmented reality at a Snapchat workshop to promote mental health and wellbeing as part of empathy week. Penwortham Girls' High School. Lancashire, England. 2021. ©Matthew Dever



Newsletter

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To promote unity across the school, we are taking part in the UNITEE competition. Students across the school have been asked to design a T-Shirt to promote the importance of tolerance and understanding. They will be modelled by staff in a whole school fashion show. As part of the online workshop, the girls have decided that the Lens Studio software would be a great way to promote this and showcase the skills that they learned from Snap Inc.'s creative team. I am very excited to see what the girls create. We are also exploring other opportunities to incorporate this software into school and look at how it can be used to promote equality."

Ed Kirwan, the founder and CEO of Empathy week, had invited the girls to take part in the workshop which included schools from Mexico, the USA, and the UK. On hearing about the involvement of the school in the UNITEE campaign, he commented, "Well done to all those involved in this year's UNITEE fashion show and for putting your time and effort into something greater than yourself. This is empathy in action – you have taken time to understand a charity and the people they help, so that you can have a greater impact. Empathy is so vital to building better relationships and not only to help other people but to also help yourself. It's a skill and you must keep practicing it as you go through school and beyond. I can't wait to see the final designs and I wish you all the best of luck."

Mrs Bennett (Curriculum Leader for the C.A.T. Faculty) and Mrs Hall (Deputy Headteacher)



A student working with augmented reality at a Snapchat workshop to promote mental health and wellbeing as part of Empathy Week. Penwortham Girls' High School. Lancashire, England. 2021. ©Matthew Dever

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Penwortham Girls'
High School

Science Department

Mission to Mars Competition



A huge congratulations to Hattie C in 7H who has been selected as a prize winner for her submission to the Mission to Mars competition as part of the Literacy Trust.

The entry from Hattie C was so creative they have made a special 'honourable mention' prize for her. The judges have said the following, "An honourable mention to Hattie C, Penwortham Girls' High School. This entry went above and beyond by creating a physical model of the Mars base - which no other student did. I was really impressed with the labelling, making it easy to identify the areas of the base and I also loved the use of action figures!"

I am sure that you will agree that this is an exceptional piece of work. We received so many entries of such a high standard. Hattie's work is going to be announced in a news story article published on the National Literacy Trust website and the funder's website, Turner and Townsend next week. Hattie will also receive a book token prize for her work.

A huge well done to Hattie and all the entries received by Year 7 and 8.

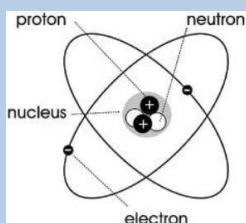
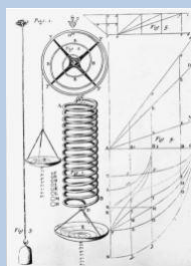
Mrs R Cahill
Science Department

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Penwortham Girls'
High School

GOODYEAR



On This Day in Science

July 01: American inventor, Charles Goodyear died on this day in 1860. He was the inventor of vulcanized rubber, a baked mixture of rubber and sulfur (S) that creates a strengthened compound. The process reinvented rubber as a useful substance that could withstand the variations of day-to-day temperatures. Rubber alone freezes in winter and melts in summer.

July 09: Italian scientist, Amedeo Avogadro died on this day in 1856. His hypothesis (now known as Avogadro's Law) states that equal volumes of gases at a given temperature and pressure contain the same number of molecules. This is now widely accepted and the number of molecules in a mole is referred to as Avogadro's number, 6.02×10^{23} .

July 18: British scientist, Robert Hooke was born on this day in 1635. Hooke realised that the force exerted on a spring is proportional to its extension, now known as Hooke's Law. He also wrote a book on microscopes, made Robert Boyle an air pump so that he could study gases and coined the biological term 'cell'.

July 24: English physicist, Sir James Chadwick died on this day in 1974. He received the Nobel Prize in Physics in 1935 for his discovery of the neutron, a subatomic particle with zero electrical charge. Neutrons are found in the nucleus of all elements (except hydrogen) along with protons, which carry a positive charge.

July 25: Biophysicist, Rosalind Franklin was born on this day in 1920. She carried out crucial x-ray crystallography experiments at King's College London that helped Crick and Watson determine the structure of DNA. She also led pioneering work on the tobacco mosaic and polio viruses.

July 27: English scientist, John Dalton died on this day in 1844. He was a pioneering researcher of modern atomic theory and colour blindness. Dalton discovered that pressures of saturated vapours of all liquids have the same value at boiling point and founded 'Dalton's law of partial pressures.'

July 31: The U.S. government panel approved the use of gene therapy to treat human disease on this day in 1990. Gene therapy uses DNA to treat disease, usually by replacing a faulty gene with a healthy copy. Recent clinical studies suggest this technique holds promise for the future treatment of Parkinson's disease.

*Mrs Goodwill,
Science Department*

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Penwortham Girls'
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Should We Save the Northern White Rhino?

Sudan (right) was the last male Northern White Rhino. He died in 2018 and this effectively made the species extinct.

"His death is a cruel symbol of human disregard for nature and it saddened everyone who knew him," said Jan Stejskal, an official at Dvur Kralove Zoo in the Czech Republic, where Sudan had lived until 2009. He now leaves behind the last 2 white rhinos, his daughter and granddaughter.

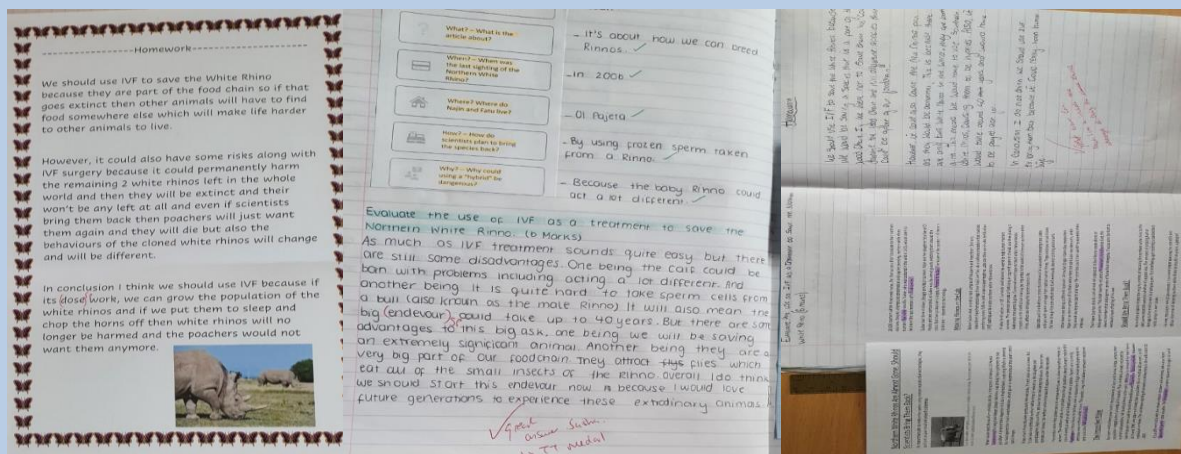
As there are no male white rhinos left, it is impossible for any more rhinos to be born. Or is it?



Figure 1 - Sudan and his handler, just hours before he died.

Sperm cells were harvested before Sudan died, as well as egg cells from the remaining females. With advances in modern technologies, IVF scientists have the ability to create some embryos and effectively save the species but should we do it? Using modern Science to save the white rhino, raises moral and ethical issues that have been hotly anticipated for the last 3 years since Sudan's death. It also raises the possibilities of inbreeding as we would be fusing cells of a granddaughter and grandfather.

All of Year 7 were tasked with reading some articles about Sudan and the plans that could be put in place to produce some new embryos. They then had to use some reading and evaluative techniques to decide if they thought we should use IVF to save the Northern White Rhino. This led to some great debates with students on either side. To finish, they had to complete an extended answer question, *"Evaluate the use of IVF to save the Northern White Rhino."* They all rose to the challenge and produced some excellent work that they should all be proud of!



Mr Dean, Science Department

Friday 18th June
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Penwortham Girls'
High School

Year 10 Space

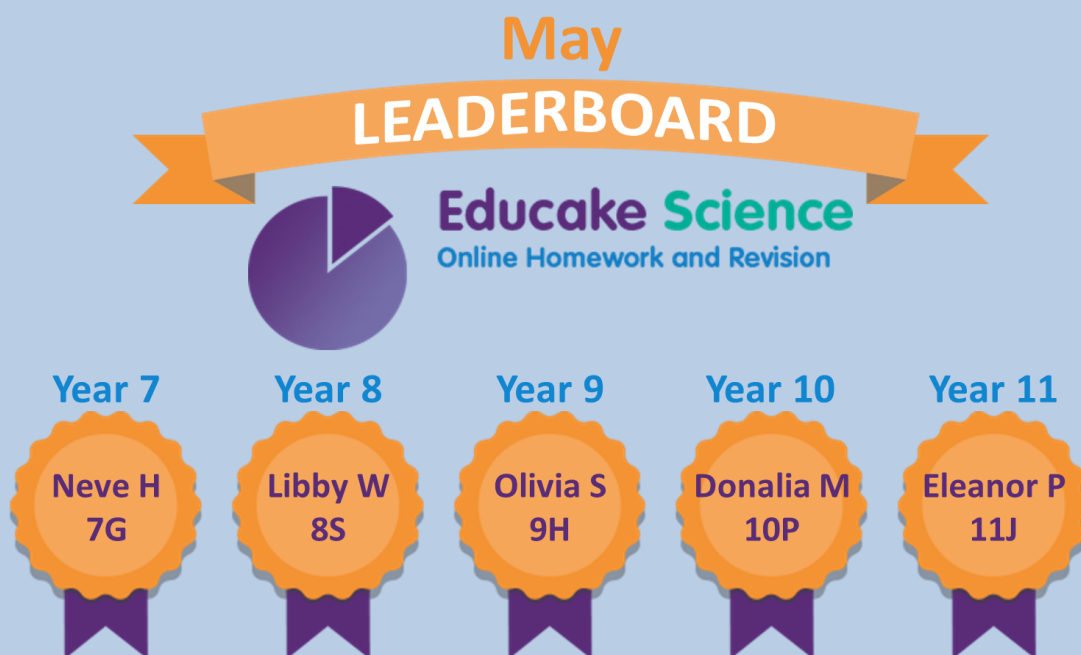
Nasa states, "Stars are the most widely recognised astronomical objects and represent the most fundamental building blocks of galaxies. The age, distribution and composition of the stars in a galaxy trace the history, dynamics and evolution of that galaxy. Moreover, stars are responsible for the manufacture and distribution of heavy elements such as carbon, nitrogen and oxygen. Consequently, the study of the birth, life and death of stars is central to the field of astronomy."

As part of their GCSE course, Year 10 Separate Science students, have been looking into the life cycle of stars. They have made some excellent visual flow diagrams that show the life cycle of a star being the same size as our sun, as well as showing the life cycle of a star much more massive than the sun. How many of these stages have you heard of? Ever wondered what a black hole or a supernova is? Check out NASA's website below for more information.

<https://science.nasa.gov/astrophysics/focus-areas/how-do-stars-form-and-evolve>

Mrs Honeyman
Science Department

Educake Leaderboard



MOST QUESTIONS ANSWERED: Eleanor P (11J)

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Penwortham Girls'
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Hair-Raising Science

Our Year 8 scientists are currently studying the Electricity & Electromagnets unit. As part of this unit of work, students learn about static electricity electric charges. Students were able to use the Van de Graaff generator that we have in school, to demonstrate how static charge can be built up on an object due to two insulators rubbing together.

A Van de Graaff generator moves negative electrons along a rubber belt and collects them on the metal sphere at the top, causing a charge to be built up on the sphere. These electrons repel each other and try to get as far away from each other as possible, spreading out on the surface of the sphere.

Some brave students also demonstrated how this charge can be built up on people too. The best examples we had in 8S were Maisie W and Keyah W, who stood in a plastic tray to insulate themselves from the ground and touched the metal sphere. The electrons spread out and built up on Maisie and Keyah. We could see this happening as their hair began to stand on end! Each individual hair became negatively charged because of the electrons causing each strand of hair to repel each other, stand up and spread away from each other.

The Van de Graaff generator was invented by an American physicist, Robert J. Van de Graaff in 1929. The potential difference achieved by modern Van de Graaff generators can be as much as 100,000 volts and can store enough energy to produce visible electric sparks. Small Van de Graaff machines are produced for entertainment and for physics education to teach electrostatics; larger ones are displayed in some science museums.

You can also experiment with static electricity at home using a balloon. Blow up the balloon, rub it on your head and try to stick the balloon to a wall. Do you know why the balloon is attracted to the wall?

Miss Forrest
Science Department

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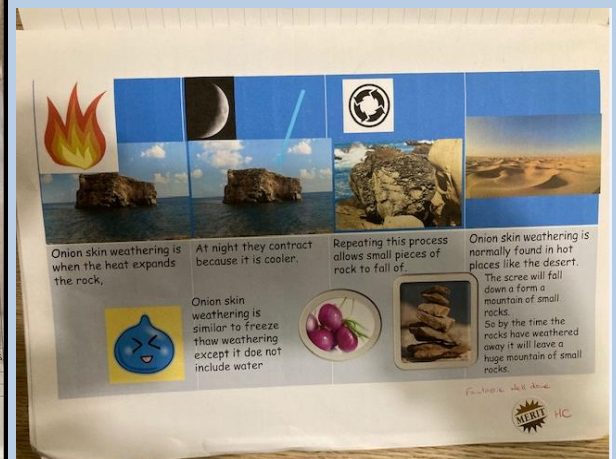
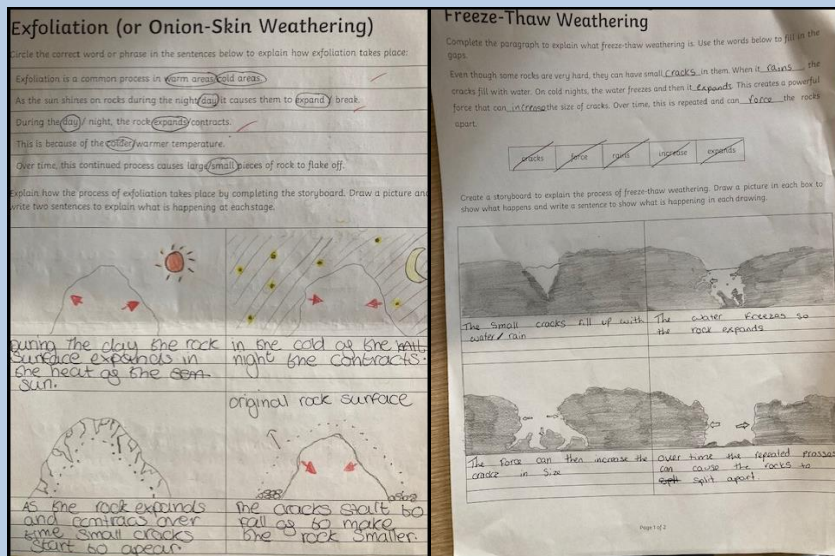
Subject Specific Terminology

Science, like many other subjects, has its own language describing objects, ideas and processes. Explicitly teaching these words is essential for decoding the subject matter and allowing the girls to understand and answer higher level questions. 9J (along with the rest of year 9) have recently been learning about radiation as part of their first GCSE Physics topic. To assess their progress, we asked them to describe how ionising and penetrating alpha, beta and gamma radiation, as well as describing their charge and structure. The quality of responses was fantastic. The girls are starting to develop a logical, concise style of writing, including using the subject specific terminology in the correct context.

Mr Coogan
Science Department

Weathering of Rocks

During the summer term, Year 7 students have been learning about the structure of the Earth, including a detailed look at the rock cycle and how it helps to form the varied nature of the rock formations that make up the crust. Weathering is a vital component of the rock cycle and the girls have been producing story boards to explain different forms of weathering.



Mr Knee
Science Department

Newsletter

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Penwortham Girls'
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Festival of Performance and the Arts P&A21

Monday 21st June Yr8: Mid-Summers Night's Dream – 17 th June Festival News Teams	Tuesday 22nd June Yr7 Sawley Abbey	Wednesday 23rd June Photography masterclass / exhibition (Yr9/10)	Thursday 24th June Years 7 to 9 Team Building	Friday 25th June Year 7 Passport Walk Virtual Musicals throughout the festival in English
Monday 28th June Creative Arts Exhibition (All Week) 	Tuesday 29th June Quad Mural Year 8 Passport Walk	Wednesday 30th June Flash Mob Music (anytime, anywhere!) SEND Celebration Picnic	Thursday 1st July Cheerleading Sports Day (All Years) Athletics, Rounders & Netball	Friday 2nd July Chess Championship
Monday 5th July Year 9 Passport Walk The Grand Debate Yr10	Tuesday 6th July Malawi Non-Uniform Day (Red, Black or Green) Quad Concert Open Mic	Wednesday 7th July KS3 Getting September Ready (am) Runshaw Experience Yr10	Thursday 8th July Year 10 Passport Walk Years 7 to 9 Orienteering	Friday 9th July KS3 Awards Assembly Chatsworth House Yr10

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Penwortham Girls'
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GCSE Art and Design Exhibition – Festival of Performance and the Arts

2021 GCSE Exhibition
28th June
Art, Craft & Design



THE
ART
DEPARTMENT



Monday 28th June | Private View 3.30pm - 6.00pm |
Penwortham Girls' High School

All welcome to attend |



Summer Hockey Camp

3 Day Lancashire Hockey Camp!

- Wednesday 21st – Friday 23rd July, 9am – 4pm.
- Westholme School, Blackburn, BB2 6QU.
- £30 per day, per player.
- All genders, ages 8 to 17 years, all abilities.
- 4 GK spaces, limited outfield spaces.

To book email: horsfieldhockey@hotmail.com or visit
www.horsfieldhockey.co.uk

HORSFIELD
HOCKEY

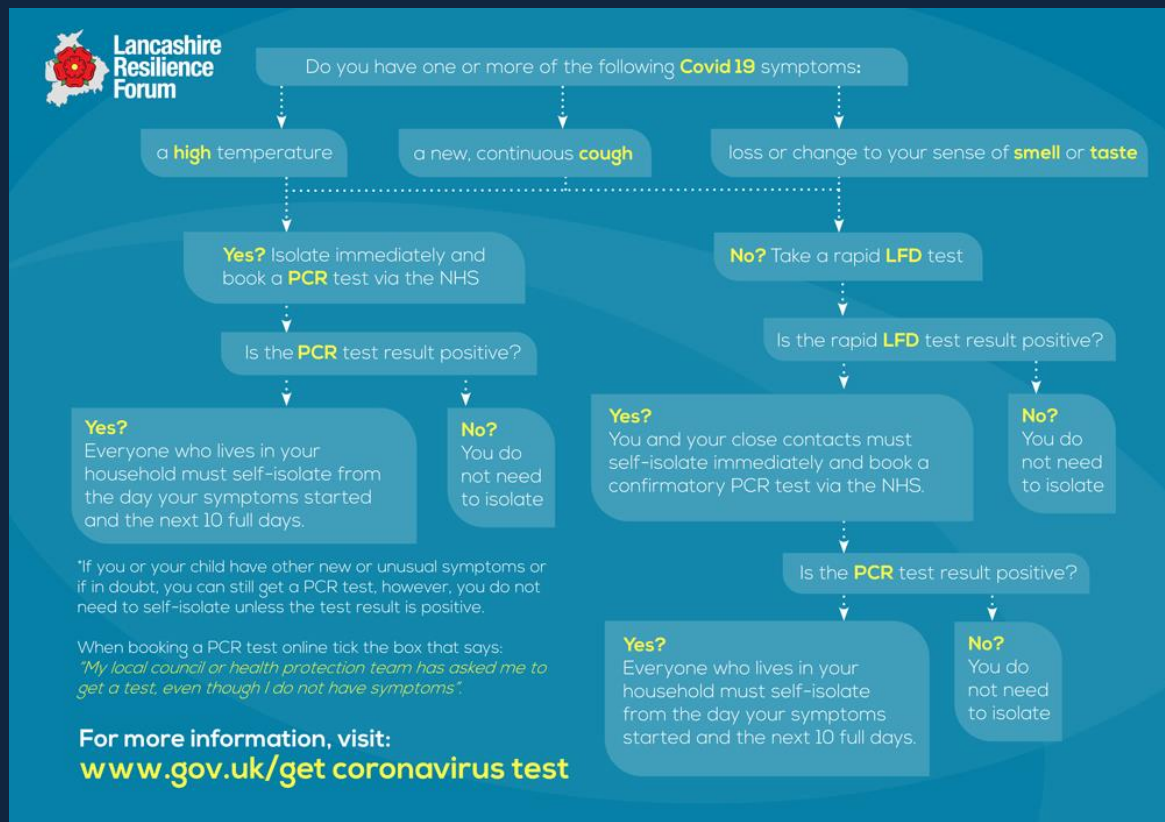


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Covid Testing Guidance



As you may be aware, South Ribble has been designated as an area of 'enhanced response' due to the rise in cases of Covid-19 in Lancashire and across the North West, driven by the variant first identified in India, now known as Delta.

We know that this variant is more transmissible than previous strains. New data is also emerging that suggests that people infected with the Delta variant – which is now thought to be the dominant strain in the UK – may be at greater risk of being admitted to hospital compared to the Alpha variant, which originated in Kent, although further data is needed to have more confidence in that finding. Public Health England is currently working hard to understand the Delta variant better.

At present, we have been given no further guidance about what we, as a school, need to do in order to support the work of the local authority to reduce the spread of the virus. As you know, we have continued with the use of face coverings in school. We would also like to encourage all students to continue with their twice weekly lateral flow tests - this will help support our efforts to protect our school community and reduce transmission of the virus by detecting asymptomatic cases.

Once we receive any further information about any action the school needs to take, we will be in touch.

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Penwortham Girls'
High School

Head's Commendations



Louise P R (Year 9)

Outstanding Penwortham Peak story! (Geography)

Katie T, Faye G, and Chloe E (Year 7)

Going above and beyond to complete an optional task after learning about the right to education. A fantastic amount of effort went into producing a biography about Malala Yousafzai and her fight for girls' education.

Lottie T, Amy L, and Georgina R (Year 7)

Amazing eco-home build using Roblox/Minecraft. Master builder! (Geography)

Sofia W, Lydia W, Patricia K, Emma C, Maisie J (Year 7)

Outstanding effort on the eco-home project. (Geography)

Vidhya P (Year 7)

An outstanding journey from fertilisation to pregnancy. (Science)

Rosie Y and Tasha M (Year 7)

Journey of sperm to the egg - a superb story. (Science)

Sasha H, Emerson W, Natalie U, Chloe E (Year 7)

Excellent journey of a sperm cell. Really well written and very creative. Well done! (Science)

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Penwortham Girls'
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MFL Stars of the Week



Year 7 German	Year 8 German	Year 9 German	Year 10 German	Year 8 French	Year 9 French	Year 10 French
Lydia W	Hanya	Isla	Grace R	Alice W 8s	Charlotte B 9p	Katie H
Esme	Laila U	Rebecca S	Felicity A	Libby W 8S	Esha C 9p	Sophie W
Dayana	Isabelle W 8J	Amber R 9P	Diljeet KS	Charlotte B 8S	Amirah P 9p	
Amina F	Ellie W 8J	Amani P 9P	Kit WE	Jannah K 8S	Lola U 9p	
	Freya W 8J			Amirah P 8h	Megan H 9G	
	Sana K 8J				Isobelle B 9G	
	Ellie K 8J				Aasiya 9G	
	Eva M 8J				Aminah A 9h	
					Rhea S 9h	
					Lily-Anna J 9j	
					Sofia R 9j	
					Louise P-R 9j	
					Evie G 9j	

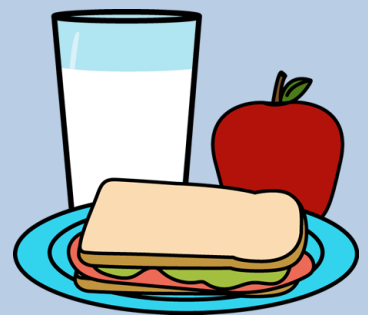
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Penwortham Girls'
High School

Lunch Menu

Week commencing 21st June



Monday

All day brunch – pork/vegetarian sausage, omelette, hash browns and beans

Tuesday

Chicken or Vegetable Tikka served with rice and naan bread

Wednesday

Beef or vegetarian lasagne served with salad and garlic bread

Thursday

Meat and potato pie/cheese pie served with broccoli and pickled beetroot

Friday

Fish/pizza served with chips, peas or beans

Freshly made sandwiches from £1.00

Hot Sandwich selection from £1.85

Cold drinks from 45p

Homemade cookies and cakes from 40p

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Penwortham Girls'
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PGHS PE After-School Clubs

Starting W/B 12th April!

<u>Monday</u>	<u>Tuesday</u>	<u>Thursday</u>	<u>Friday</u>
Year 7	Year 10 & 11	Year 9	Year 8

Year 7, 8 and 9 practices will start at 3:00pm and finish at 4:30pm. Y10 and 11 will start at 3:20pm and finish at 4:30pm.



You will be given a choice of a wide range of different activities each week. The sports will be different every session so you can experience a variety of different activities.



Please bring trainers with you and you may also bring a pair of dark coloured plain tracksuit bottoms, this is optional.



PGHS PE After-School Clubs

The most popular sports from the list below will be available each week. Popularity will change from one week to the next to cater for all students.



If you have any questions or queries, please contact Mrs Naylor. s.naylor@penworthamgirls.lancs.sch.uk

Friday 18th June
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Penwortham Girls'
High School

Do you need
careers
advice?

Independent Careers Adviser

Shamim Khan

Available for 1:1 Careers Appointments & Drop In sessions in
The Careers Room (Situated first floor next to the ICT Suite)

Drop In sessions Times:

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

Careers Adviser Dates:

March 2021	Wednesday 17 th March 2021 Wednesday 24 th March 2021
April 2021	Tuesday 13 th April 2021 Wednesday 14 th April 2021 Wednesday 21 st April 2021 Tuesday 27 th April 2021 Wednesday 28 th April 2021
May 2021	Wednesday 5 th May 2021 Wednesday 12 th May 2021 Wednesday 19 th May 2021 Wednesday 26 th May 2021
June 2021	Wednesday 9 th June 2021 Wednesday 16 th June 2021 Wednesday 23 rd June 2021 Wednesday 30 th June 2021
July 2021	Wednesday 7 th July 2021 Wednesday 14 th July 2021

If you would like a 1:1 appointment, please email:

careers@penworthamgirls.lancs.sch.uk

Registered Professional Careers Practitioner/Member



Friday 18th June
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Penwortham Girls'
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Get your jab today!

**There is a Mobile Vaccination
Clinic in your area.**

**If you're aged 18 and over you can get your
first dose of the coronavirus Pfizer vaccine,
subject to eligibility**

No appointment needed!

For more information visit:



www.preston.gov.uk/getyourjab



Friday 18th June
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Penwortham Girls'
High School

Pop down to the Mobile Vaccination Clinic today.

Monday 14th June	9am - 1pm 2pm - 6:30pm	Morrisons, Deepdale, Blackpool Rd, Preston, PR1 6US
Wednesday 16th June	9am - 12:30pm 1:30pm - 5pm	Cardinal Newman College, Preston. Herschell St. car park, PR1 3QU
Thursday 17th June	9am - 12:30pm 1:30pm - 5pm	Preston Flag Market, City Centre, PR1 2PP
Friday 18th June	9am - 12:30pm 1:30pm - 5pm	Plungington Community Centre, Brook Street, Preston, PR1 7NB
Saturday 19th June	9am - 12:30pm 1:30pm - 5pm	Preston Flag Market, City Centre, PR1 2PP
Sunday 20th June	9am - 1pm 2pm - 6:30pm	Morrisons, Deepdale, Blackpool Rd, Preston, PR1 6US

No appointment needed!

For more information visit:
www.preston.gov.uk/getyourjab



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Penwortham Girls'
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RED
ROSE
BOWL

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HEART OF PRESTON.
WE ALSO HAVE
AN EXTENSIVE
AMUSEMENT
ARCADE!

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MON-THURSDAY EXCLUDING HALF TERMS.