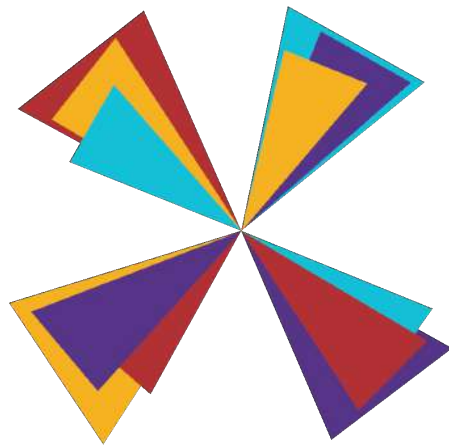


TEAM BLATCH



Online Learning Bulletin

Friday 1st May 2020



Online Learning Bulletin

Dear Team Blatch,

Welcome to our fifth online learning bulletin.

It has been brilliant to see our students are back into the swing of online learning and working so hard to produce fantastic work. The range and variety of the different tasks they are completing really is excellent.

Our staff, across the whole school, continue to work incredibly hard to support our students with their learning and we are so grateful to all of them for their commitment to our students.

Our wider Blatch community continues to support us brilliantly too - all your messages of thanks and support for our staff really do help to bolster us all - thank you for taking the time to write to us.

We hope you enjoy reading these wonderful examples of work.



Lyla H, year 8 Art



Art and Design

Ava O in year 8 has been busy making face masks in a variety of lovely patterns as part of her Art & Design work. Well done Ava!



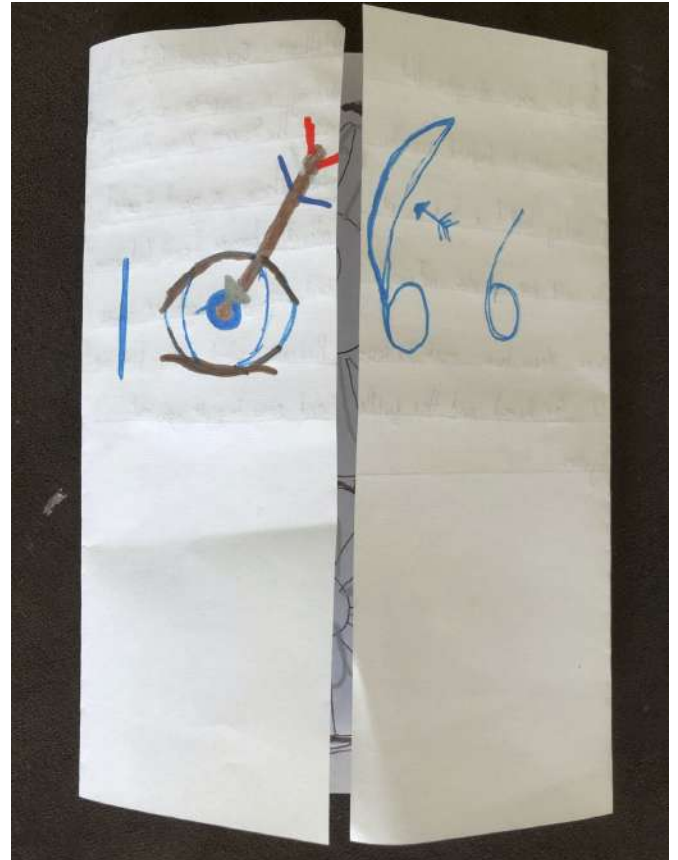


History

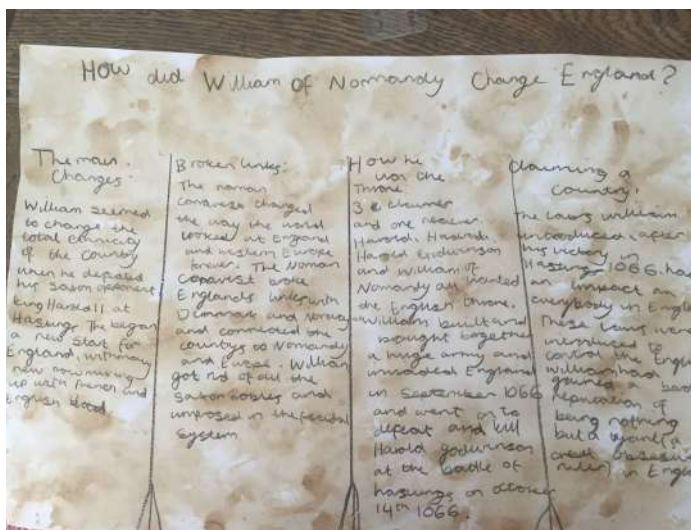
Our year 7 History students have been learning all about William the Conqueror. Here are some of their great projects.



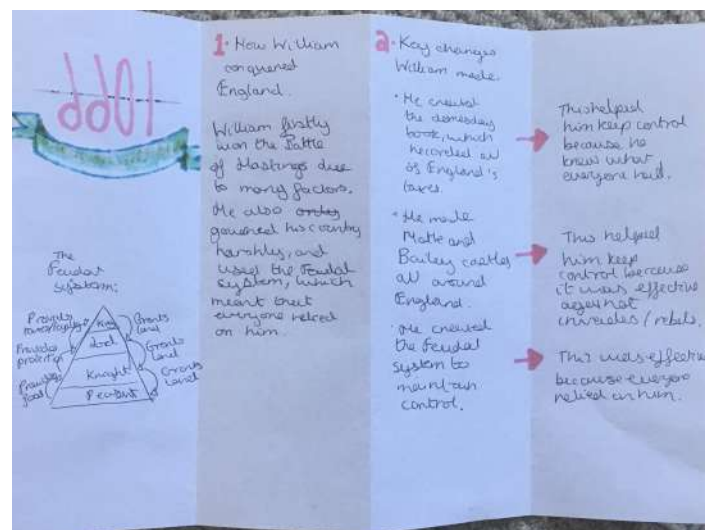
Leni T



Edie EB



Grace W



Alonna FS



Maths

Mr Bennison's year 8 class have been working on circumference this week. Here is some of the excellent work they have completed.

Question 1:

Ⓐ 31.4 cm ✓ Ⓑ 22 cm ✓ Ⓒ 9.4 mm ✓ Ⓓ 18.8 m ✓
 Ⓔ 1.6 m ✓ Ⓕ 28.3 cm ✓ Ⓖ 78.5 cm ✓ Ⓗ 4.1 m ✓

Question 2:

Ⓐ 25.1 cm ✓ Ⓑ 201.1 cm ✓ Ⓒ 50.3 cm ✓ Ⓓ 34.6 mm ✓
 Ⓔ 314.2 cm ✓ Ⓕ 44 mm ✓ Ⓖ 446.1 cm ✓ Ⓗ 5 m ✓

Question 3:

Ⓐ 6.3 cm ✓ Ⓑ 44 m ✓ Ⓒ 18.8 cm ✓
 Ⓓ 0.9 km ✓ Ⓔ 282.7 inches ✓ Ⓕ 35.8 yards ✓

Question 4:

Ⓐ 6.3 cm ✓ Ⓑ 15.7 m ✓ Ⓒ 50.3 cm ✓ Ⓓ 22.8 cm ✓
 Ⓔ 2.5 cm ✓ Ⓕ 94.2 cm ✓ Ⓖ 56.5 cm ✓ Ⓗ 69.1 cm ✓

Rudy M

$C = \pi \times d$

Q1

a. 31.4 mm ✓ b. 22.0 cm ✓ c. 9.4 mm ✓ d. 18.8 m ✓
 e. 1.6 m ✓ f. 28.3 cm ✓ g. 78.5 cm ✓ h. 4.1 m ✓

Q2

a. 25.1 cm ✓ b. 201.1 cm ✓ c. 50.3 cm ✓ d. 34.6 mm ✓
 e. 314.2 cm ✓ f. 44 mm ✓ g. 446.1 cm ✓ h. 5 m ✓

Q3

a. 6.3 cm ✓ b. 44 m ✓ c. 18.8 cm ✓
 d. 0.9 km ✓ e. 282.7 inches ✓ f. 35.8 yards ✓

Q4

a. 6.3 cm ✓ b. 15.7 m ✓ c. 50.3 cm ✓ d. 22.8 cm ✓
 e. 2.5 m ✓ f. 94.2 cm ✓ g. 56.5 cm ✓ h. 69.1 cm ✓

Q5

a. 4π ✓ b. 8π ✓ c. 26π ✓ d. 34π ✓

I didn't write cm or mm

Madeline M

Isobel Barnes

CIRCUMFERENCE

$C = \text{circumference}$ $d = \text{diameter}$ $r = \text{radius}$ All answers to 1dp for Q1, 2, 3 & 4

1. a. $d = 10\text{cm}$ $C = 10 \times \pi = 31.4\text{cm}$ ✓ b. $d = 7\text{cm}$ $C = 7 \times \pi = 21.98\text{cm}$ ✓
 c. $d = 3\text{mm}$ $C = 3 \times \pi = 9.42\text{mm}$ ✓ d. $d = 6\text{m}$ $C = 6 \times \pi = 18.8\text{m}$ ✓
 e. $d = 0.5\text{m}$ $C = 0.5 \times \pi = 1.57\text{m}$ ✓ f. $d = 9\text{in}$ $C = 9 \times \pi = 28.3\text{in}$ ✓
 g. $d = 25\text{cm}$ $C = 25 \times \pi = 78.5\text{cm}$ ✓ h. $d = 1.3\text{m}$ $C = 1.3 \times \pi = 4.1\text{m}$ ✓

2. a. $r = 4\text{cm}$ $d = 8\text{cm}$ $C = 8 \times \pi = 25.1\text{cm}$ ✓
 b. $r = 32\text{cm}$ $d = 64\text{cm}$ $C = 64 \times \pi = 201.1\text{cm}$ ✓
 c. $r = 5\text{cm}$ $d = 10\text{cm}$ $C = 10 \times \pi = 31.4\text{cm}$ ✓
 d. $r = 5.5\text{mm}$ $d = 11\text{mm}$ $C = 11 \times \pi = 34.6\text{mm}$ ✓
 e. $r = 50\text{cm}$ $d = 100\text{cm}$ $C = 100 \times \pi = 314.2\text{cm}$ ✓
 f. $r = 7\text{mm}$ $d = 14\text{mm}$ $C = 14 \times \pi = 44.0\text{mm}$ ✓
 g. $r = 71\text{cm}$ $d = 142\text{cm}$ $C = 142 \times \pi = 446.1\text{cm}$ ✓
 h. $r = 0.8\text{m}$ $d = 1.6\text{m}$ $C = 1.6 \times \pi = 5.0\text{m}$ ✓

3. a. $d = 2\text{cm}$ $C = 2 \times \pi = 6.3\text{cm}$ ✓ b. $d = 14\text{m}$ $C = 14 \times \pi = 44.0\text{m}$ ✓
 c. $r = 3\text{cm}$ $d = 6\text{cm}$ $C = 6 \times \pi = 18.8\text{cm}$ ✓ d. $r = 0.15\text{km}$ $d = 0.3\text{km}$ $C = 0.3 \times \pi = 0.9\text{km}$ ✓
 e. $d = 90\text{in}$ $C = 90 \times \pi = 283.5\text{in}$ ✓ f. $d = 5.7\text{yards}$ $C = 5.7 \times \pi = 18.0\text{yards}$ ✓

4. a. $d = 2\text{cm}$ $C = 2 \times \pi = 6.3\text{cm}$ ✓ b. $r = 2.5\text{m}$ $d = 5\text{m}$ $C = 5 \times \pi = 15.7\text{m}$ ✓
 c. $d = 16\text{cm}$ $C = 16 \times \pi = 50.3\text{cm}$ ✓ d. $d = 7.26\text{cm}$ $C = 7.26 \times \pi = 22.8\text{cm}$ ✓
 e. $r = 0.4\text{m}$ $d = 0.8\text{m}$ $C = 0.8 \times \pi = 2.5\text{m}$ ✓ f. $d = 30\text{cm}$ $C = 30 \times \pi = 94.2\text{cm}$ ✓
 g. $d = 18\text{cm}$ $C = 18 \times \pi = 56.5\text{cm}$ ✓ h. $r = 11\text{cm}$ $d = 22\text{cm}$ $C = 22 \times \pi = 69.1\text{cm}$ ✓

5. a. $r = 2\text{cm}$ $d = 4\text{cm}$ $C = 4 \times \pi = 12.6\text{cm}$ ✓ b. $d = 8\text{cm}$ $C = 8 \times \pi = 25.1\text{cm}$ ✓
 c. $d = 26\text{cm}$ $C = 26 \times \pi = 81.7\text{cm}$ ✓ d. $r = 1.7\text{mm}$ $d = 3.4\text{mm}$ $C = 3.4 \times \pi = 10.7\text{mm}$ ✓

Isobel B

MATHS Q4

1. a. 31.4 cm ✓ b. $\pi \times 2 = 6.3\text{cm}$ ✓
 c. 22.0 cm ✓ d. $\pi \times 14 = 44.0\text{m}$ ✓
 e. 9.4 mm ✓ f. $\pi \times 3 = 9.4\text{cm}$ ✓
 g. 18.8 m ✓ h. $\pi \times 0.15 = 0.47\text{m}$ ✓
 i. 1.6 m ✓ j. $\pi \times 90 = 283.5\text{inches}$ ✓
 k. 28.3 cm ✓ l. $\pi \times 5.7 = 35.8\text{yards}$ ✓
 m. 78.5 cm ✓ n. 4.1 m ✓

2. a. $\pi \times 8 = 25.1\text{cm}$ ✓ b. $\pi \times 5 = 15.7\text{m}$ ✓
 c. $\pi \times 16 = 50.3\text{cm}$ ✓ d. $\pi \times 7.26 = 22.8\text{cm}$ ✓
 e. $\pi \times 18 = 56.5\text{cm}$ ✓ f. $\pi \times 0.8 = 2.5\text{m}$ ✓
 g. $\pi \times 100 = 314.2\text{cm}$ ✓ h. $\pi \times 30 = 94.2\text{cm}$ ✓
 i. $\pi \times 14 = 44.0\text{mm}$ ✓ j. $\pi \times 18 = 56.5\text{cm}$ ✓
 k. $\pi \times 142 = 446.1\text{cm}$ ✓ l. $\pi \times 22 = 69.1\text{cm}$ ✓
 m. $\pi \times 1.6 = 5.0\text{m}$ ✓ n. $\pi \times 22 = 69.1\text{cm}$ ✓

3. a. $\pi \times 2 = 6.3\text{cm}$ ✓ b. $\pi \times 14 = 44.0\text{m}$ ✓
 c. $\pi \times 3 = 9.4\text{cm}$ ✓ d. $\pi \times 0.15 = 0.47\text{m}$ ✓
 e. $\pi \times 90 = 283.5\text{inches}$ ✓ f. $\pi \times 5.7 = 35.8\text{yards}$ ✓
 g. $\pi \times 2 = 6.3\text{cm}$ ✓ h. $\pi \times 5 = 15.7\text{m}$ ✓
 i. $\pi \times 16 = 50.3\text{cm}$ ✓ j. $\pi \times 7.26 = 22.8\text{cm}$ ✓
 k. $\pi \times 18 = 56.5\text{cm}$ ✓ l. $\pi \times 0.8 = 2.5\text{m}$ ✓
 m. $\pi \times 100 = 314.2\text{cm}$ ✓ n. $\pi \times 30 = 94.2\text{cm}$ ✓
 o. $\pi \times 14 = 44.0\text{mm}$ ✓ p. $\pi \times 18 = 56.5\text{cm}$ ✓
 q. $\pi \times 142 = 446.1\text{cm}$ ✓ r. $\pi \times 22 = 69.1\text{cm}$ ✓
 s. $\pi \times 1.6 = 5.0\text{m}$ ✓ t. $\pi \times 22 = 69.1\text{cm}$ ✓

4. a. $\pi \times 2 = 6.3\text{cm}$ ✓ b. $\pi \times 14 = 44.0\text{m}$ ✓
 c. $\pi \times 3 = 9.4\text{cm}$ ✓ d. $\pi \times 0.15 = 0.47\text{m}$ ✓
 e. $\pi \times 90 = 283.5\text{inches}$ ✓ f. $\pi \times 5.7 = 35.8\text{yards}$ ✓
 g. $\pi \times 2 = 6.3\text{cm}$ ✓ h. $\pi \times 5 = 15.7\text{m}$ ✓
 i. $\pi \times 16 = 50.3\text{cm}$ ✓ j. $\pi \times 7.26 = 22.8\text{cm}$ ✓
 k. $\pi \times 18 = 56.5\text{cm}$ ✓ l. $\pi \times 0.8 = 2.5\text{m}$ ✓
 m. $\pi \times 100 = 314.2\text{cm}$ ✓ n. $\pi \times 30 = 94.2\text{cm}$ ✓
 o. $\pi \times 14 = 44.0\text{mm}$ ✓ p. $\pi \times 18 = 56.5\text{cm}$ ✓
 q. $\pi \times 142 = 446.1\text{cm}$ ✓ r. $\pi \times 22 = 69.1\text{cm}$ ✓
 s. $\pi \times 1.6 = 5.0\text{m}$ ✓ t. $\pi \times 22 = 69.1\text{cm}$ ✓

5. a. $\pi \times 2 = 6.3\text{cm}$ ✓ b. $\pi \times 14 = 44.0\text{m}$ ✓
 c. $\pi \times 3 = 9.4\text{cm}$ ✓ d. $\pi \times 0.15 = 0.47\text{m}$ ✓
 e. $\pi \times 90 = 283.5\text{inches}$ ✓ f. $\pi \times 5.7 = 35.8\text{yards}$ ✓
 g. $\pi \times 2 = 6.3\text{cm}$ ✓ h. $\pi \times 5 = 15.7\text{m}$ ✓
 i. $\pi \times 16 = 50.3\text{cm}$ ✓ j. $\pi \times 7.26 = 22.8\text{cm}$ ✓
 k. $\pi \times 18 = 56.5\text{cm}$ ✓ l. $\pi \times 0.8 = 2.5\text{m}$ ✓
 m. $\pi \times 100 = 314.2\text{cm}$ ✓ n. $\pi \times 30 = 94.2\text{cm}$ ✓
 o. $\pi \times 14 = 44.0\text{mm}$ ✓ p. $\pi \times 18 = 56.5\text{cm}$ ✓
 q. $\pi \times 142 = 446.1\text{cm}$ ✓ r. $\pi \times 22 = 69.1\text{cm}$ ✓
 s. $\pi \times 1.6 = 5.0\text{m}$ ✓ t. $\pi \times 22 = 69.1\text{cm}$ ✓

Lily M



English

Max M in Mx Muggleton's English class has created an excellent piece of work based on a comic strip heroes. Check out his creation below!

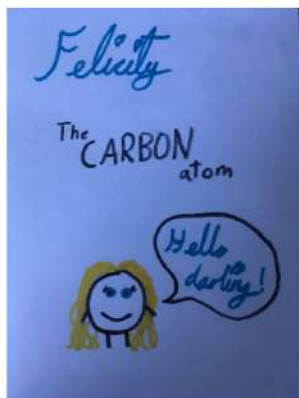


The hero in my story comes from a country constantly in battle with evil dark magic users who constantly attack them. All hope seems lost when the powerful queen dies but her child rises up to take the throne and protect his country. Past down through the royal bloodline where a set of weapons so powerful they might just be enough to stop the evil dark magic users. The young king has to get used to the weapons in months or even weeks which is a process meant to take years but his determination and courage prevails and he manages to unleash the weapons' mighty power on the bad guys just in the nick of time.



Science

Sofia S in Ms Kendall's year 7 Science class has created a brilliant presentation to display her research on the allotropes of carbon.



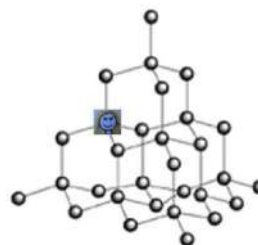
This is *Felicity*. She is a carbon atom. Carbon atoms can be part of many structures but *Felicity* is part of a diamond.



On an expensive wedding ring!!!

On an expensive wedding ring.

Felicity is part of a structure. That structure makes up a diamond. Every atom is linked to four others. Here is a small part of that structure.



But diamond isn't all carbon can make! There are 3 natural forms of carbon currently known to mankind! These are diamond, like *Felicity*, graphite and fullerenes. I think it's time to meet some of *Felicity's* friends.



Excellent idea! Though I must warn you, they aren't nearly as charming as me!

First up, we have **Fred**. **Fred** is part of Fullerene.

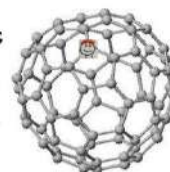


Yes I am! Betcha don't know wot fullerene is do ya?

Well, ladies and gentlemen, this is fullerene.



And this, is it's atomic structure.



And last but not least, **Jess**. She is part of graphite.

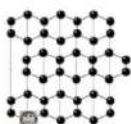


Yeh. It's probably like the coolest and most useful carbon structure ever. Like, just saying.

Graphite is used in many things. It is most of what you call pencil led and is also just that little bit shiny.



This is it's atomic structure. Notice it has layers.



Thank you!

And

Goodnight!!!





Science

Also in Science, Ms Cahill's year 8 class were asked to design a (safe!) science experiment they could carry out at home. Some even took photos and recorded videos of themselves carrying out the experiment!



Kit H created an amazing video tutorial on the reaction between lemon juice and bicarbonate of soda.



Isabelle T also created an experiment with bicarbonate of soda and lemon juice!

Bicarbonate of soda in lemon juice

When you put bicarbonate of soda in water it dissolves and forms an alkaline solution. But because lemon juice contains citric acid and is a pH of around 3, the bicarbonate (this has a pH of around 8.3) in the lemon juice it neutralizes it and that's why it fizzes up.



And Amy C created an excellent floating egg experiment!

So, How does this experiment work? Well, in the experiment, a bowl is filled with ice and salt, then a bottle of water is placed in the middle until the thermometer reaches -8 degrees. Then, once removed from the bowl, the bottle of water is banged on a table and from the top to the bottom it freezes almost instantaneously. The salt and water is used to bring down the temperature of the water before the reaction takes place. This reaction occurs because ice crystals begin to collect in the water when the water passes its freezing point. The crystals use microscopic imperfections in the water to grow onto. The process itself is called 'snap freezing'.



Music

Emmeline V in year 10 has carried out some excellent research on pop music this week. Take a look at her work below.

Conventions of Pop Music – GCSE

Using the suggestions below, select 1 piece from each of the 4 Genres within **Conventions of Pop**, listen to the piece and then complete the table as you are listening.

Make sure that where possible you complete all the boxes, in detail and use musical language.

Rock 'n' Roll Examples: Elvis Presley (Hound Dog) The Beatles (Twist and Shout) The Beach Boys (Surfin' USA) Bill Haley and the Comets (Rock around the clock) Jerry Lee Lewis (Great Balls of Fire)	Rock Anthems Examples: Queen (We Will Rock You and We Are The Champions) Bon Jovi (Livin' on a Prayer) Guns and Roses (Sweet Child of Mine)
Pop Ballads Examples: Bob Dylan (Blowin' in the Wind) Sting (Seven days) Kate Bush (Wuthering Heights) Elton John (Candle in the Wind) Bette Midler / Celine Dion covered (Wind beneath my wings) Bob Dylan / Adele covered (Make You Feel My Love)	Solo Artists Examples: Michael Jackson, Madonna, Whitney Houston, Adele, George Ezra, Amy Winehouse, Robbie Williams, Bruno Mars, Lady Gaga, Kylie Minogue, Ed Sheeran, Beyonce

1950s and 60s Rock 'n' Roll			
Name of Song: hounddog Band / Artist: elvis presley			
Instrumentation (with descriptions of any techniques or effects)	Structure of the song	Vocal style / Vocal techniques used	Other musical features
guitar (electric and has a solo in the song, mainly simple strumming and chords until the solo) bass(walking bass line throughout the song repeated) drums (drums are a basic rhythm throughout apart from the roll at the end of the verses)	the time signature is 4/4 walking bassline 4 main chords throughout the song instrumental repeated lyrics simple structure steady tempo	repetitive male lead vocals backing singers vocals provide the main melody in the song apart from in the guitar solo	lyrics are repeated many times and are very catchy



Music

Rock Anthems of 19780s and 80s			
Name of Song: sweet child o' mine Band / Artist: guns and roses			
Instrumentation (with descriptions of any techniques or effects)	Structure of the song	Vocal style / Vocal techniques used	Other musical features
rhythm guitar bass guitar lead guitar (repeated melody in introduction then is repeated again in the chorus) acoustic guitar drums (introduced during the introduction)	Long introduction complex guitar solo verse small chorus verse big chorus instrumental lead guitar with vocals that are short phrases or ad libs	Male lead vocals backing vocals vocals provide main melody until after the second chorus where the guitar is lead instrument loud vocals small range	repeated catchy chorus lyrics

Pop Ballads of the 1970s – 90s			
Name of Song: blowin in the wind Band / Artist: bob dylan			
Instrumentation (with descriptions of any techniques or effects)	Structure of the song	Vocal style / Vocal techniques used	Other musical features
fretless bass piano violin strings ensemble guitar	calm tempo that stays similar throughout repeated phrase in verses chord and verse structure	lead male vocals small vocal range (upper range) vocals is the lead instrument	the lyrics of the song are protesting about war and wanting world peace instruments add a mellow and peaceful tone to the song



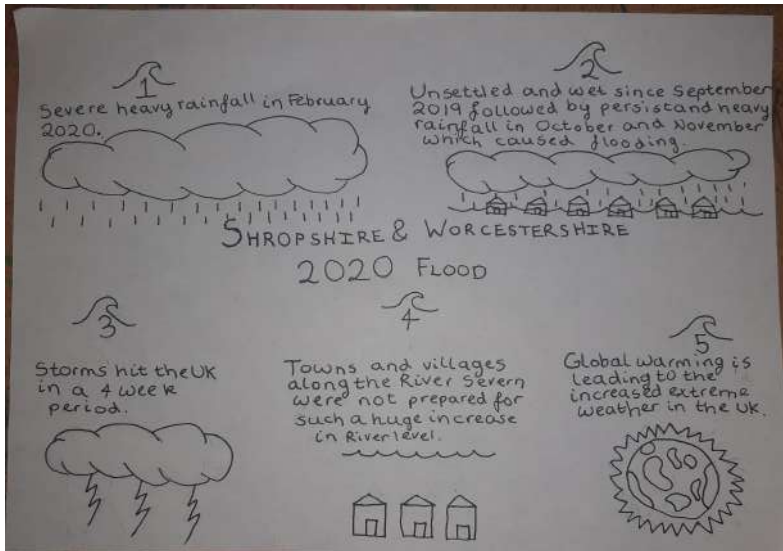
Music

Solo artists from 1990s to the present day			
Name of Song: rehab Band / Artist: amy winehouse			
Instrumentation (with descriptions of any techniques or effects)	Structure of the song	Vocal style / Vocal techniques used	Other musical features
trumpet sexophone drums guitar piano cello	no introduction to the song starts straight away with chorus verse chorus structure middle 8 4/4 time signature	female lead vocals large vocal range	catchy lyrics



Geography

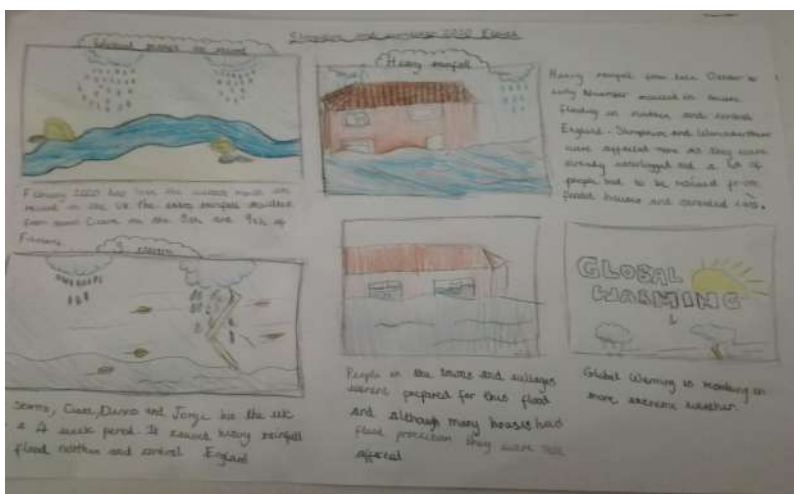
Our year 7 Geography students have been continuing their work on the Shropshire and Worcestershire 2020 floods. Here are some examples of the excellent work they have been up to.



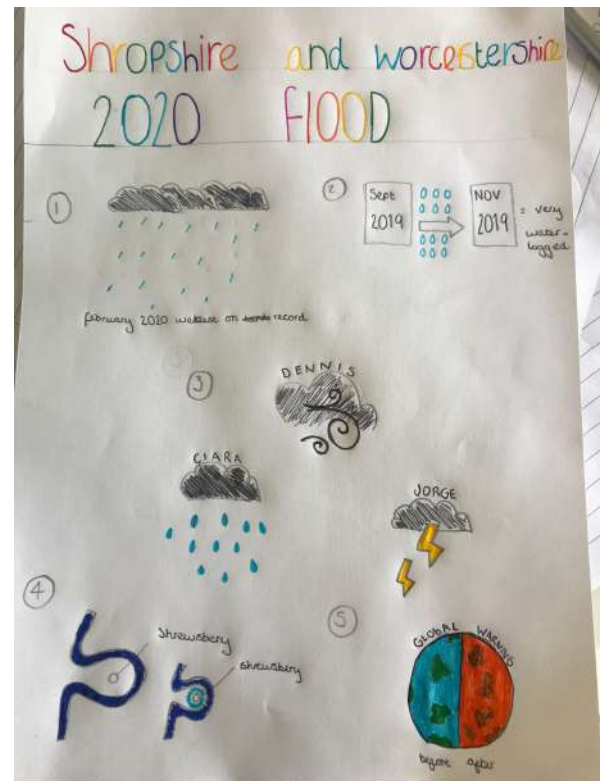
Hazel T



Jens P



Ruru T



Isla P



Botswana tourist map

A hand-drawn tourist map of Botswana. The map is oriented with North at the top. It features several labeled locations and landmarks:

- Top Left:** "Sole's point" with a small building icon. Below it, "Beleg's lodges" with a circular icon.
- Top Center:** "Hotel" with a rectangular building icon. Text next to it says "TL hotel is nice. It has a swimming pool and a bar. It is a good place to stay." Below the hotel, "It is a nice, safe place to stay."
- Top Right:** "WC" with a small building icon. Text next to it says "all kinds of good food for sale here."
- Center:** "School" with a building icon. Below it, "Boat" with a small boat icon. Text next to it says "The boat is a good one. It is a good one to have."
- Bottom Center:** "Boat" with a small boat icon. Text next to it says "The boat is a good one. It is a good one to have."
- Bottom Right:** "Shop" with a building icon. Text next to it says "all kinds of good food for sale here."
- Bottom Left:** "Key" with a small key icon. Text next to it says "The key is a good one. It is a good one to have."
- Bottom Center:** "Boat" with a small boat icon. Text next to it says "The boat is a good one. It is a good one to have."
- Bottom Right:** "Boat" with a small boat icon. Text next to it says "The boat is a good one. It is a good one to have."


The map is drawn with simple lines and colors. The background is light blue, representing water. The land areas are light green. The buildings and boats are drawn with simple outlines. The text is handwritten in black ink.

All the food
is sourced within
30 miles of the hotel.
Only sustainable food
is used.

There are healthy
foster areas with
lots of interesting
plants and insects.

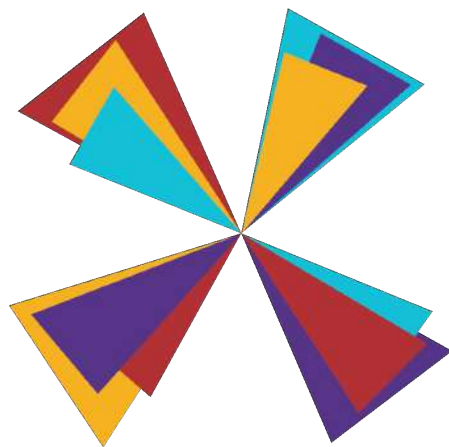
The whole hotel is made out of locally
sourced stone, bricks and wood.
The wood is FSC certified.

The hotel offers
huge measures
of financial
and social etc.

[illegible]

Esme T

Don't forget to share work, photos and
tips with us on Twitter [@blatchmill](https://twitter.com/blatchmill)



#TeamBlatch