



Castle View Academy

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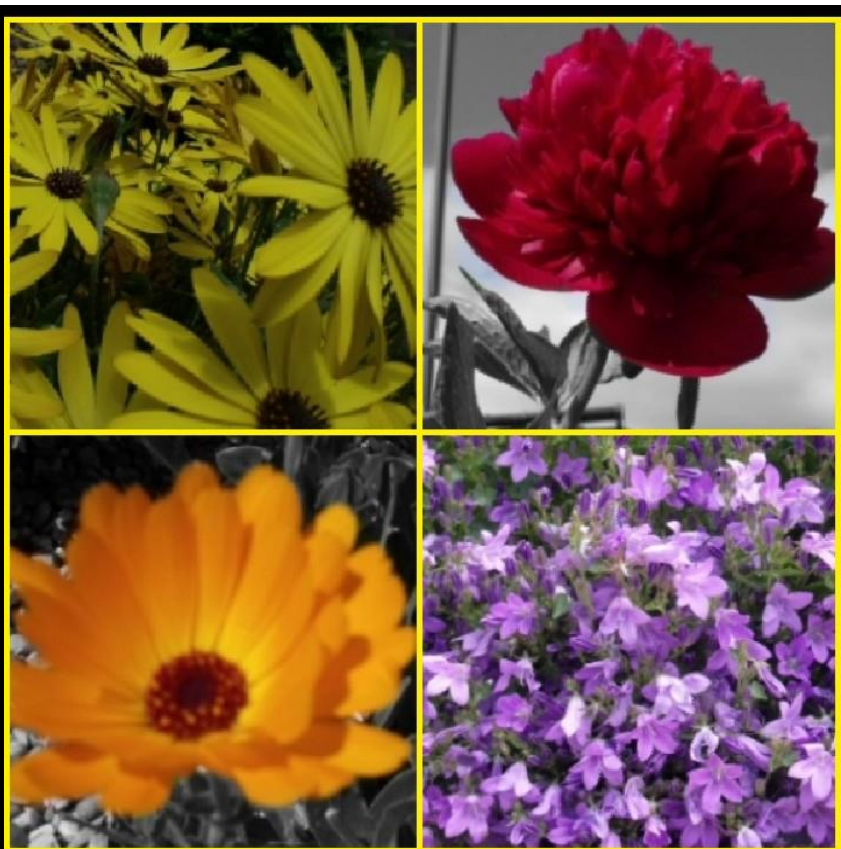
Part of United Learning

8th May 2020 - Edition: 4

The Weekly Roundup

#Determination #Ambition #Kindness

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Education with Character Photography Challenge

We have had some brilliant photos sent for the photography challenge including these lovely Spring themed photos from Jake D (Y7) who has created a collage of Springtime Blooms for us all to enjoy.



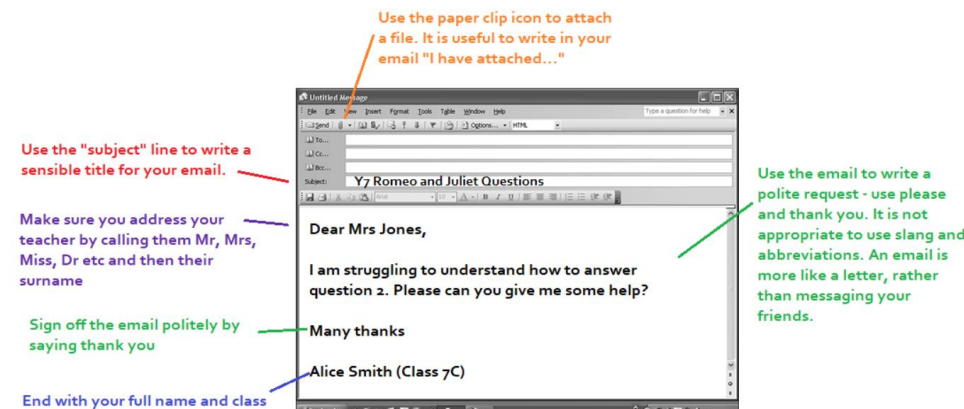
A message to Yr 9 students -

I know that learning from home is very different to being in school. If you are finding the work set tricky or you don't understand something then drop your teacher an email to see if they can give you advice or a call. To help you with sending an email I have included a simple guide for sending an email. Remember - it is important to be able to send a polite email in the world of work!

Ms Cole
Head of Year 9

A student's guide to sending email

APRIL 30, 2020





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 EqualEngineers

Institution of
MECHANICAL
ENGINEERS

COVID-19 STUDENT CHALLENGE



The Institution of Mechanical Engineers are running a Covid-19 Challenge with great prizes available including a £100 Amazon voucher, and a private tour at an engineering facility.

The Challenge - We are all currently facing daily challenges and problems due to the coronavirus as well as being exposed to issues around us that we're not used to dealing with. We are looking for creative and out-of-this-world ideas, to help tackle the effects of Covid-19 around you. Be as imaginative as you can, and as a team, or individually pitch in with your innovative solutions to help defeat coronavirus.

Challenge deadline- 31st May 2020
Click [here](#) for more information and to find out how to enter.



The poster features a background of a Union Jack flag and a string of Union Jack bunting. At the top center is a red and white '75' logo with 'VE DAY' written below it. A large white box in the center contains the text 'STAY HOME STREET PARTY' in bold black letters, followed by 'GET YOUR PACK AT PORTSMOUTH.GOV.UK/VE75' in red and blue. To the right of the text is a logo of a heart with a house inside. At the bottom, in a black silhouette of a city skyline, the text 'ALL DAY FRIDAY 8 MAY' is written in white.

PORTSMOUTH.GOV.UK/VE75

Celebrate the 75th anniversary of VE Day safely with the PCC Stay Home Party ideas - Everything you need to mark the momentous occasion from home, including recipes, sing-along cards and make-at-home bunting. Click [here](#)

Just after 3pm on Friday 8 May, there will be a broadcast of the speech that Winston Churchill made on 8 May 1945 to enormous crowds in London. After the broadcast of Churchill's rousing speech, we'll share personal accounts from Portsmouth residents, voiced by local actors from local drama group Victoryland.

To catch the broadcast and personal stories, [find us on Facebook](#) or [follow us on Twitter](#).

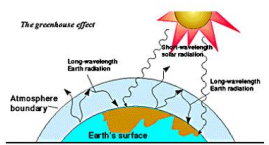




1/05/2020

The greenhouse effect

Task 1 - Greenhouse effect



What are the 3 greenhouse gases?

The three greenhouse gases are carbon dioxide, water vapour and methane.

Use the diagram to describe the greenhouse effect:

Short wave infra red is emitted from the sun. This infra red passes through the atmosphere and reaches the earth. Some energy is absorbed by the earth, however some energy is reflected by the earth but is now a longer wavelength. Some of the reflected radiation escapes into space but others get trapped in the atmosphere.

Task 2 - Global climate change



(a) Use information from the graph to calculate the total mass of carbon removed from the atmosphere each year.
 $120 + 90 = 210$
210 billions of tonnes

(b) The mass of carbon in the atmosphere is increasing by 5 billion tonnes each year.
One tonne of carbon is equivalent to 3.67 tonnes of carbon dioxide.
Calculate the increase in the mass of carbon dioxide in the atmosphere each year.
 3.67×5000000000
 1.8350000000000 billion tonnes

(c) Many scientists think the burning of fuels is the main cause of the increasing amount of carbon dioxide in the atmosphere. Other scientists disagree.
Choose answers from the box.
You may use each answer once, more than once or not at all.
One reason why scientists do not think that burning fuels is the main cause of the increase in, because they amount of carbon emitted into the atmosphere by respiration and decomposition on the land is much higher than the burning fuels.
Some scientists think we should eat less meat and eat more food from plants.
Suggest how eating less meat and eating more food from plants could reduce the amount of carbon dioxide in the atmosphere.
Eating less meat and eating more food from plants could reduce the amount of carbon dioxide because less deforestation is happening because we don't need the space to farm the cattle. Therefore, more carbon dioxide can be removed from the earth.

Task 3 - Exam questions

Q2. Many scientists think that global air temperature is related to the concentration of carbon dioxide in the atmosphere.
The graph below shows changes in global air temperature and changes in the concentration of carbon dioxide in the atmosphere.

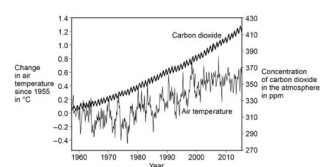
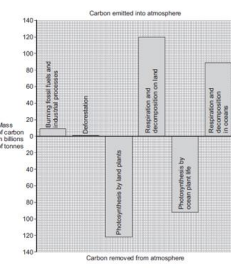
Describe the problem shown in the diagrams

There has been an increase in the greenhouse effect. The greenhouse layer is now thicker, which means that there's more carbon dioxide and methane. Therefore, more heat is trapped in the atmosphere so the earth warms up.

| Gas | Reasons the levels have risen |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Carbon dioxide | Deforestation - trees are being taken down so there's less carbon dioxide being removed. Burning fossil fuels - use of transports. |
| Methane | More landfill sites - so more methane is given off as the materials rot. More rice fields and cattle - which give off methane. |

Q1. The amount of carbon in the atmosphere is increasing.

The graph shows the mass of carbon in billions of tonnes involved in some processes in the carbon cycle each year.



(a) Complete the table below.
Use information from the graph above.
Choose answers from the box.
You may use each answer once, more than once or not at all.

| | constant | decreasing | increasing |
|---------------------------------------|------------|------------|------------|
| Trend in carbon dioxide concentration | | Increasing | Increasing |
| Trend in air temperature | Decreasing | Increasing | Constant |

Many scientists think that an increase in carbon dioxide concentration in the atmosphere causes an increase in air temperature.
(b) How would an increase in the concentration of carbon dioxide in the atmosphere cause an increase in air temperature?
Because there's more gases trapped in the atmosphere, so the earth would warm up.
(c) Evaluate evidence for and against the theory that an increase in the concentration of carbon dioxide in the atmosphere causes an increase in air temperature.
Use data from the graph above and your own knowledge.

From 1977 to 2003 the theory was correct that an increase in the concentration of carbon dioxide caused a increase in air temperature. However, between the years of 1960 to 1977 and 2003 to 2015 this was not the case.

- In each year, the concentration of carbon dioxide in the atmosphere is higher in the winter than in the summer.
(d) Give one human activity that could cause the higher concentration of carbon dioxide in the winter.
In the winter more people use their cars to travel around because it's cold and rainy.
(e) Give one biological process that could cause the lower concentration of carbon dioxide in the summer.
In the summer people walk to places or ride their bike because the weather is nice.
(f) Give two possible effects of an increase in global air temperature on living organisms.
1. Changes in animals migration and life cycle
2. Damaged corals.

Maggie Costa.

Friday 1st May 2020
Greenhouse gases
What are the three greenhouse gases?
The three main greenhouse gases are carbon dioxide, methane and nitrous oxide.
Use the diagram to describe the greenhouse effect.
The greenhouse effect is when the sun's energy reaches the earth's atmosphere, some of it is reflected back to space and the rest is absorbed and re-radiated by greenhouse gases.
Describe the problem shown in the diagrams.
In the natural greenhouse effect, the sun's energy reaches the earth's atmosphere, some of it is reflected back to space and the rest is absorbed and re-radiated by greenhouse gases. But in the human enhanced greenhouse effect, the sun's energy still reaches the earth's atmosphere but all of the sun rays are getting trapped which is causing more re-emitted heat into the atmosphere.
Gas
Reasons the levels have risen
Carbon dioxide
Because the sun rays get trapped heat escapes which is causing more re-emitted heat into the atmosphere.
Methane
There is no atmosphere for the radiation (sun) means to escape and it's natural to escape but it keeps building up.

Super effort from Chesley H this week in science

WELL DONE

To these Science students for producing some brilliant work on the Greenhouse effect

3rd May 2020
Science
The three greenhouse gases are carbon dioxide, nitrogen and methane.
Use the diagram to describe the greenhouse effect.
Firstly, UV rays from the sun travel towards the Earth. Some of the radiation goes into the earth's atmosphere and some reflects off of it. However, the greenhouse gases in the earth's atmosphere trap the solar radiation and warm the Earth's surface. The more greenhouse gases that we emit into the atmosphere, the thicker our atmosphere gets, meaning more solar rays are trapped than refracted back into space. This warms our Earth up much more and therefore making temperature hotter.
Task 2:
Describe the problem shown in the diagrams:
The problem in the diagram is that the greenhouse gases have increased on the right side of the diagram. This is a problem because the larger amounts of CO₂, methane and nitrogen makes the atmosphere thicker. This is evident in the diagram because less heat is escaping back into space and more solar radiation is being re-emitted and trapped. Whereas on the left diagram, a lot more heat escapes into space because there is less greenhouse gases to trap it. Therefore, this causes global warming as more heat is being absorbed.

Tallulah S



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👤📅 Tuesdays Media Challenge 📺🎮

Can you create your own superhero comic book? Send them in to cbeck@castleviewacademy.org.uk or to the CV Professional Studies facebook page so we can share the fabulous work going on at home #CVProud #CVMediaChallenge #GetCreative #Superhero



Year 9 Option Choices

This year the Y9 option choices will be done remotely. A letter and information booklet, which details about the course and guidance on how to make your child's choices, has already been emailed to students along with the online choice form. This information is also available on our school website. If you would like a paper copy please email Ms Cole: Jennie.cole@castleviewacademy.org.uk

All choices need to be returned by **15th May 2020**. This is so we can start to plan the new timetable and be ready for our return to school. If you have any questions/queries please email your child's Tutor or Mr Coles.



AN AWARD-WINNING EDUCATION PLATFORM,
RECOMMENDED BY THE DEPARTMENT FOR
EDUCATION FOR HOME-LEARNING
DURING THE COVID-19 CRISIS

FREE AUTHOR MASTERCLASSES

With more than 800 videos from 60+ authors, Authorfy Masterclasses are the perfect way to advance children's writing skills in a fun and interactive way. Be inspired by the likes of Michael Morpurgo, Michael Rosen and Katherine Rundell! Just browse the list of authors at authorfy.com/masterclasses or use the search function to find a particular author.



FREE 10 MINUTE CHALLENGES

Authorfy are sharing a new writing or illustration challenge with bestselling authors and illustrators every day while schools are closed. Challenges are added at 9am every weekday and remain on the website (authorfy.com/10minutechallenges) indefinitely. Anyone of any age can join in.



FREE BOOKISH ACTIVITY PACKS

Download free bookish activity packs at authorfy.com/creative. From arts and crafts to puzzles, quizzes, book club questions and more, there's something there for everyone. Each activity pack is based around a children's book such as 'Brambly Hedge', 'How To Train Your Dragon' and 'Mog The Forgetful Cat'.



GO TO AUTHORFY.COM/JOIN TO CREATE AN ACCOUNT



Ruby Year History Sunday 3rd May 2020

The Western Front

Do now:

- 1) Britain declared war on Germany on 4th August 1914.
- 2) Britain sent troops to Northern France.
- 3) The Western Front is the zone of fighting in western Europe in the First World War.

Task 2:

Video 1:

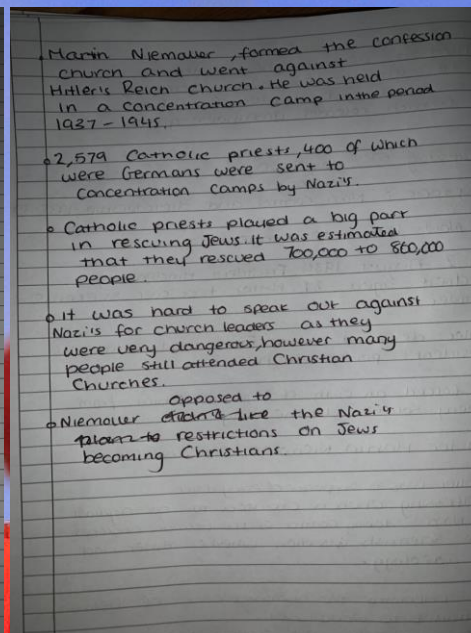
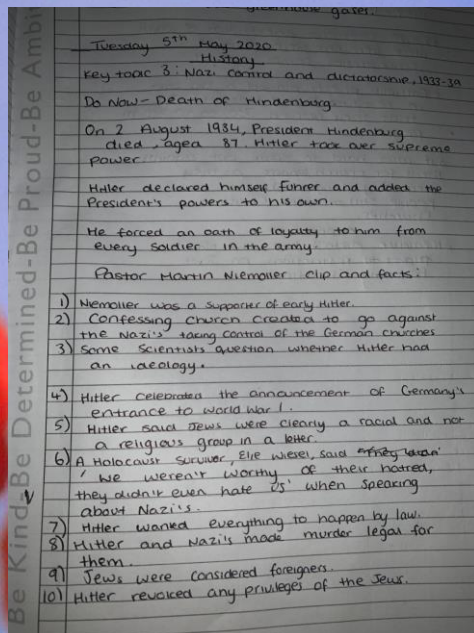
- Trenches were developed into a sophisticated network.
- In 1914 trenches were dug out by both sides.
- Trenches offered some protection for the troops.
- As the time went on trenches became more complex for permanent occupation.
- The wall facing the enemy is called a parapet.
- The wall facing the back of the trench was called the parapet.
- More sophisticated protection came in the form of underground bunkers which had also been used for storage.
- On the floor were duckboards to provide secure grounds, and aid drainage to prevent the soldier's feet from getting in the water otherwise they could get diseases such as trench foot.

- Trenches were built in zig zags so that when the enemy managed to enter it they wouldn't be able to shoot down at them.

- A trench system was three lines, the first line that was nearest to the enemy was the fire trench, the second line was the support trench, the third line was the reserve trench.

Video 2:

- Soldiers would fight eat and sleep in the trenches.
- No man's land was the deadliest place to be.
- Besides the war soldiers were also dying from the miserable condition.
- Unwashed men and dead bodies were a shock to the men joining for the first time.
- Body lice, ticks and flies were a major problem, causing never ending itches and trench fever.
- Standing in the wet muddy conditions caused trench foot, which could lead to amputations.



History Summary Task

Create a mind map of Church opposition

Church Opposition

- Hitler was worried because Catholic Churches were loyal to the Pope. → Supported Catholic Center Party. → Sent their kids to Catholic schools.
- Protestant church supported Hitler.
- Hitler's strategy was to try and consolidate his power before openly attacking the influence of the church. → His goal was to replace it with a Nazi religion.
- 800 pastors were arrested and sent to concentration camps such as Auschwitz.
- Pastor Martin Niemöller
- Opposition by church leaders was very difficult for Hitler as it was dangerous to speak out.
- 6000 protestant pastors joined Niemöller. → Only 2000 remained in the German Christian Church.

Miss Williams would like to say **well done** to Historians Kai P (Y10), Ruby M (Y9) and Jack R (10) for their brilliant History work submitted this week





top 10 performing students on HegartyMaths for this week

| Student | Year | Total hours of learning |
|-----------------|------|-------------------------|
| Faye P-M | 9 | 7 |
| Abigail T | 7 | 5.4 |
| Daisie T | 9 | 5.1 |
| Joshua R-S | 9 | 4.8 |
| Charley S | 10 | 4.2 |
| Jamie C | 7 | 4 |
| Cassey M | 11 | 3.8 |
| Grace P | 9 | 3.5 |
| Tallulah B | 8 | 3.3 |
| Isobel H | 8 | 3.1 |
| Billy O | 10 | 3 |
| Summer-Louise D | 7 | 3 |
| Grace C | 8 | 2.7 |
| Jake D | 7 | 2.6 |



The British Red Cross have some new activities on their website which help to develop resilience, ease household tensions and build empathy.

Here's a taster of some of the [new activities](#) (there are five to pick from).

[Messages of kindness](#) – there has been an outpouring of kindness during this crisis. Consider the power of kind messages and get creative by writing your own.

[Living well with kindness](#) – learn about the importance of active listening skills. Being empathetic will help learners ease household tensions during lockdown.

[Stories of resilience](#) – being resilient means being able to adapt to these changes. Using real-life stories learners will consider how we can become resilient and help our communities to be resilient too.

Download all five activities [here](#)

BE VIGILANT!



Scammers have many ways to try & get your money so don't get caught out - visit the PCC website [here](#) to learn about the scams around at the moment.

If you've been a victim of fraud or cybercrime report it online at www.actionfraud.police.uk or call 0300 123 2040.



Science Stars

Students who have put an astronomical effort into their home learning activities!

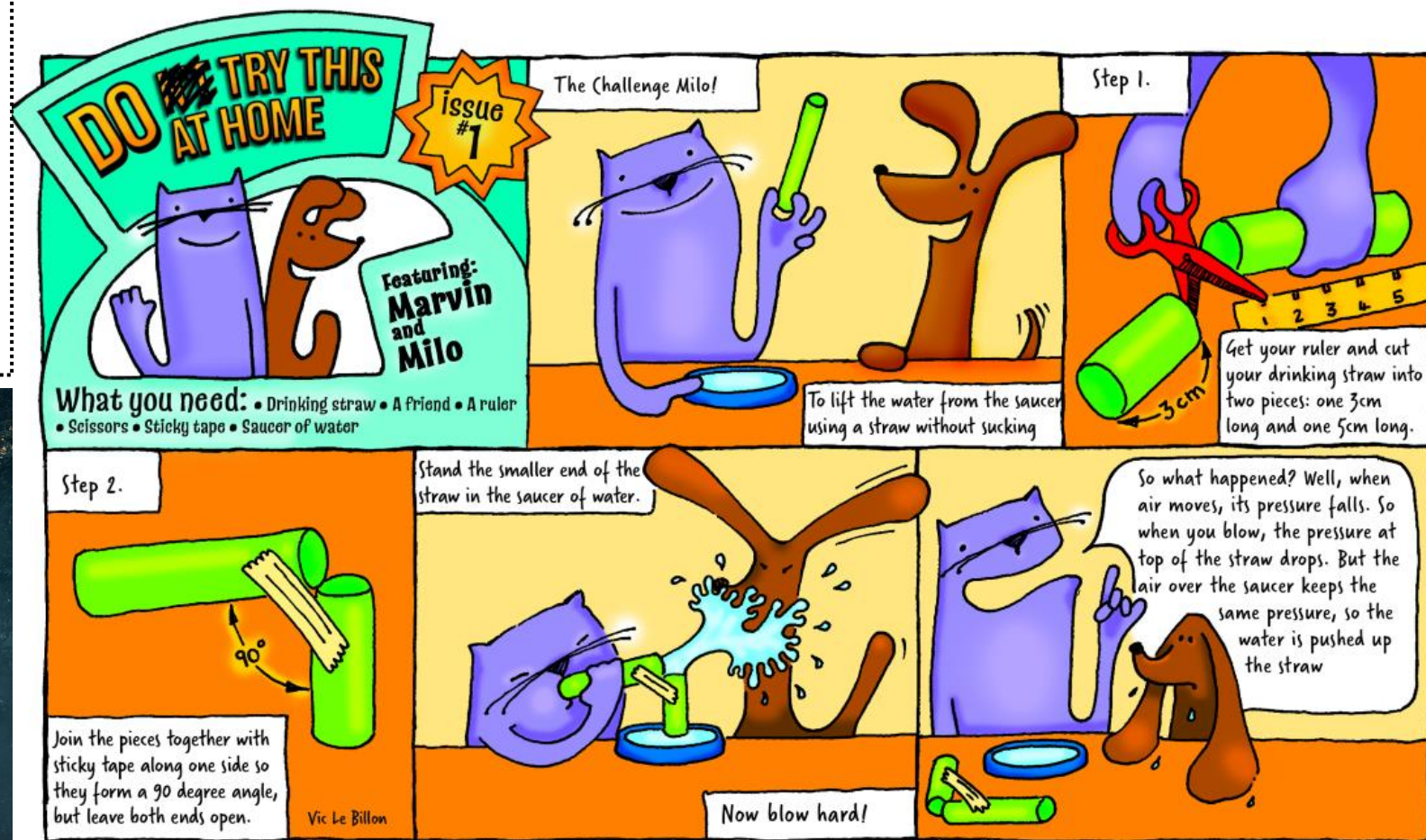
Year 7 - Jake D, Molly H, Ayesha J, Jayden P and Olivia Z

Year 8 - Zara A, Lucy G, Jake K, Logan M and Lexi HW

Year 9 - Kira G, Joe P, Katie R, Sinead B, Chanel S and Grace C

Year 10 - Chelsey H, Margarida C, Tallulah S, Owen P and Jay B

Science Challenge -



Download more Marvin and Milo activities at iop.org/marvinandmilo

© Institute of Physics 2019

Did you Know?

An elephant's trunk contains over 40,000 muscles, divided into up to as many as 150,000 individual units! In comparison the human body contains only 639 muscles.



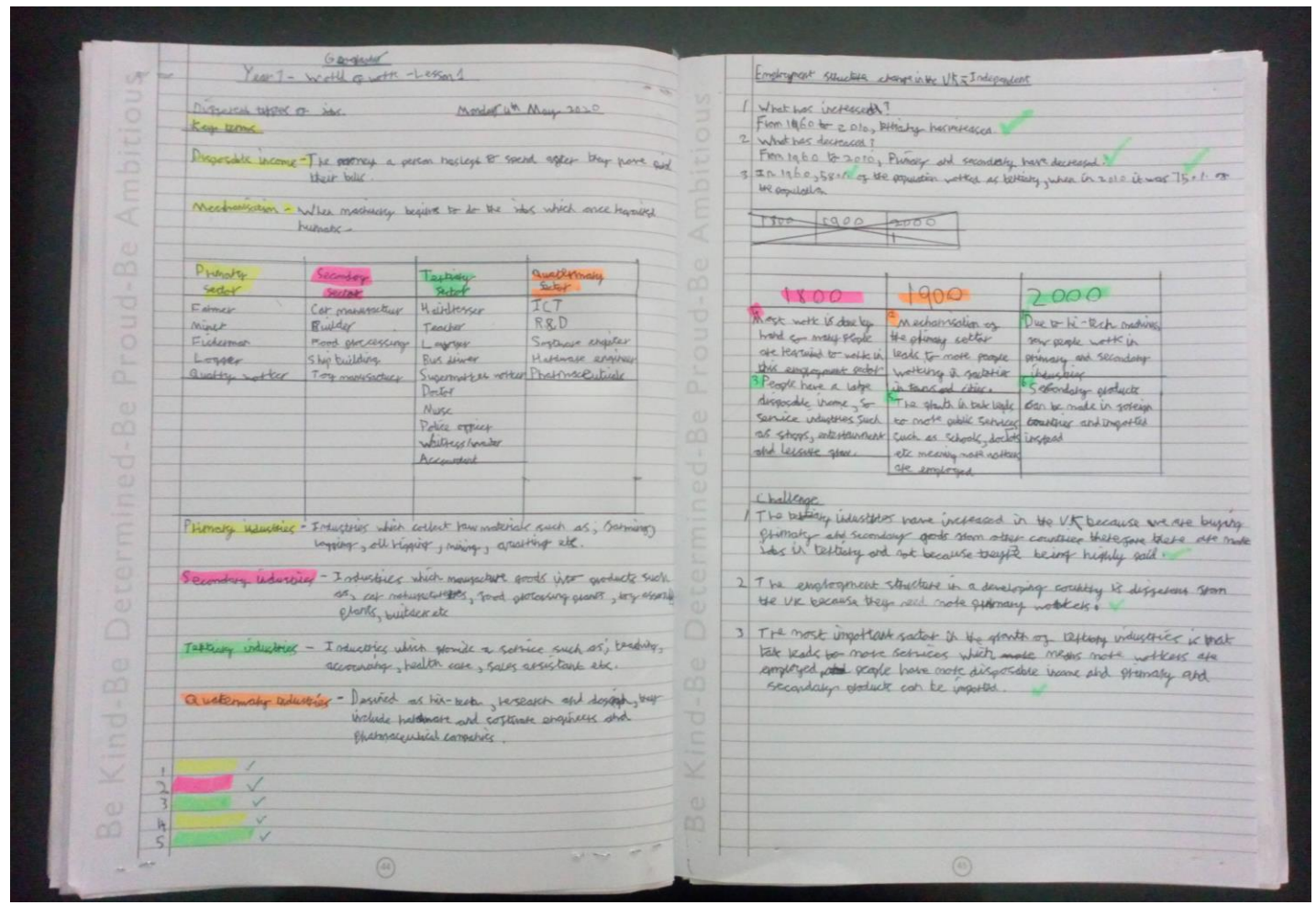


Specialist Mental Health Support 24/7
in NHS 111



If you need urgent mental health support, NHS 111 has a specialist Mental Health Triage Service. They can offer advice, support and guidance and are available 24 hours a day, 7 days a week. Call 111 or visit www.111.nhs.uk

Mr Watkins is exceptionally proud of his Y7 Geographers. Here is Jake D's fantastic opening lesson on the World of Work. Keep up the good work, Jake and the rest of Y7!



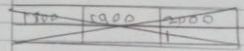
Year 7 - World of Work - Lesson 1
Disposable Income - The money a person has left after they have paid their bills.
Mechanisation - When machinery begins to do the jobs which once humans did.

| Primary Sector | Secondary Sector | Tertiary Sector | Quaternary Sector |
|----------------|-------------------|--------------------|-------------------|
| Farmer | Car manufacturer | Healthcare | ICT |
| Miner | Builder | Teacher | R&D |
| Fisherman | Food processing | Lawyer | Software engineer |
| Logger | Ship building | Bus driver | Hardware engineer |
| Quarry worker | Tyre manufacturer | Supermarket worker | Pharmaceutical |
| | | Doctor | |
| | | Nurse | |
| | | Police officer | |
| | | Substance handler | |
| | | Accountant | |

Primary industries - Industries which collect raw materials such as, farming, logging, oil drilling, mining, quarrying etc.
Secondary industries - Industries which manufacture goods from products such as, car manufacturers, food processing plants, toy manufacturing plants, builders etc.
Tertiary industries - Industries which provide a service such as, banking, accounting, health care, sales assistants etc.
Quaternary industries - Described as hi-tech, research and design, they include hardware and software engineers and pharmaceutical companies.

| | |
|---|---|
| 1 | ✓ |
| 2 | ✓ |
| 3 | ✓ |
| 4 | ✓ |
| 5 | ✓ |

- Employment structure changes in the UK - Independent
- What was increased?
From 1800 to 2000, tertiary, quaternary.
 - What was decreased?
From 1800 to 2000, primary and secondary have decreased.
 - In 1800, 55% of the population worked in tertiary, whereas in 2000 it was 15% of the population.



| 1800 | 1900 | 2000 |
|--------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Most work is done by hand so only people are trained to work in this employment sector. | Mechanisation of the primary sector leads to more people working in tertiary and quaternary sectors. | Due to hi-tech machines, more people work in primary and secondary industries. |
| People have a large disposable income for service industries such as shops, entertainment and leisure goods. | The shift in the large service industries such as schools, doctors etc. meaning more workers are employed. | Secondary products can be made in foreign countries and imported instead. |

- Challenge
- The tertiary industries have increased in the UK because we are buying primary and secondary goods from other countries, therefore there are more jobs in tertiary and not because tertiary became highly paid.
 - The employment structure in a developing country is different from the UK because they need more primary workers.
 - The most important sector in the growth of tertiary industries is that it has led to more services which means more workers are employed and people have more disposable income and primary and secondary products can be imported.



English Department News

With today marking 75 years since VE Day the English department have been reflecting on the lessons we taught earlier in the year around Anne Frank's diary. Anne was an incredibly inspirational teenager who used her writing to help make sense of the terrible events she was living through. It reminds us that often in difficult times, taking time to write out our thoughts - in whatever way we choose - can be really helpful for making sense of the events around us. If you have been writing during the last few weeks and would like to share your work we would love to read it.



Root word: fort
Meaning: strong

Words containing the root 'fort'

- **Fortress:** a "strong" building
- **Effort:** a putting of "strong" work forth
- **Comfort:** a "strong" feeling of ease

CHALLENGE:

How many words can you think of that start with the root 'fort'?

Can you explain the word's meaning using the word 'strong' or 'well' in your definition?



There has been some great work handed in this week and here are some highlights:

Year 7: Mrs Dugan would like to emphasise how consistent Bracken, Abigail and Charlie have been. They have all submitted the work within time and to a high standard.

Year 8: Triniti, April, Danielle, Kai and Joshua. Triniti and Danielle submit work within deadline and to an extremely high standard. Kai's and Josh's stories last week were superb and contain a clear narrative with the use of varied vocabulary and sentence starters.

Year 9: In Miss de Belder's class Mia has written an unbelievably brilliant description of a setting:

The smell of burning still lingered in the air despite the torrential rain. Livid storm clouds rumbled above like the deep growl of a furious tiger. Smoke engulfed the landscape, drifting from side to side, devouring everything in its path and smothering it with a suffocating blanket. Leaving nothing but their thin, skeletal remains rooted in the ash covered soil, the fire had stripped the trees of their majestic beauty. Everything was still apart from a few lifeless leaves meandering aimlessly on the forest floor in the bitter wind.

In Miss Chering's class she would like to highlight the hard work put in by Tom and Keiron.

Mrs Dugan has been really impressed by Michael who has shown great resilience by giving everything a go, even when he finds it tricky.

Year 10: Miss Findlay's class have been fantastic with their completion of their weekly homework. There were some excellent examples from Jack M, Taia, Jack R, Tallulah. Keep up the hard work.

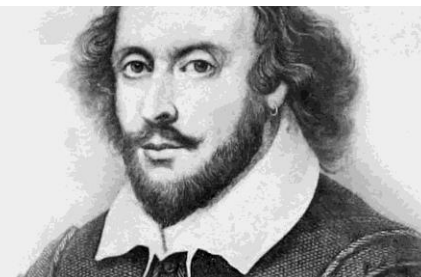
Miss de Belder would like to highlight Harvey, Maggie and Kai.

Miss Chering is really pleased with the efforts of Amy and Chloe.

We sign off today with Shakespeare,

It is not in the stars to hold our
destiny but in ourselves.

William Shakespeare





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“

Success is not final; failure is not fatal: It is the courage to continue that counts

- Winston S. Churchill

If you need to get in touch with someone from the school, please use the following email addresses:

HOY 7 – elizabeth.nutland@castleviewacademy.org.uk

HOY 8 - naila.choudhry@castleviewacademy.org.uk

HOY 9 - adam.thomas@castleviewacademy.org.uk

HOY 10 - laurence.holden@castleviewacademy.org.uk

HOY 11 - clare.sitch@castleviewacademy.org.uk

Student Welfare

Mrs Griffiths -

samantha.griffiths@castleviewacademy.org.uk

If you need to contact the school in an emergency, please contact Mrs Gajdus on

arlene.gajdus@castleviewacademy.org.uk or

07745791678

Don't forget to follow us on our Facebook & Twitter pages using @CastleviewUL

Take care and stay safe!