

St Martin-in-the-Fields High School for Girls

A Church of England Academy
Service Compassion Justice Perseverance



SIMPLY THE BEST!



**HOME
LEARNING**
at St Martin's

ISSUE THIRTEEN
17.07.2020

INTRODUCTION

Welcome to Issue 13 of Simply the Best!

This is our final edition of our Home Learning Bulletin bringing together exemplar learning that students have been completing and submitting from home.

I am sure, just like me, you have been blown away by the amazing learning that has been showcased in our bulletin over 13 weeks. Yes, 13 weeks of home learning, such a long time to be away from school, but we are pleased to say that we will all be back in school and together again in September.

We are all incredibly proud of each and every student, the way in which they have coped during this global pandemic, the way in which they have developed their independent learning skills and the way in which they have shown commitment and taken their studies seriously. Well done St Martin's girls, you have been very resourceful and creative.

I will miss not seeing Simply the Best! over the next 6 weeks but it won't be the end. Due to its popularity and by way of regularly sharing students' learning, we have decided to continue with a bulletin showcase in the new academic year. Look out for our School Learning Bulletin in September. The name of the bulletin, yet to be decided!

My thanks to every student who has contributed to the bulletins over the past weeks and to every reader. Thank you to Sarah in Year 11, soon to be Year 12, our very own artist-in-residence. Her splendid artwork graced our pages to highlight specific events, such as Windrush Day, Refugee Day, the Black Lives Matter movement, and many more. Her final piece of artwork, in this issue, is a tribute to honor the late, great Nelson Mandela to celebrate the annual "Mandela Day on 18 July 2020."

Thank you to the staff for getting the exemplar learning to the right place at the right time, and to our Media Resources Officer, who ensured the bulletin was designed and published on time every week.

To all of the St Martin's community... You are Simply the Best!

Wishing you a safe, peaceful, restful and happy summer. See you in September!

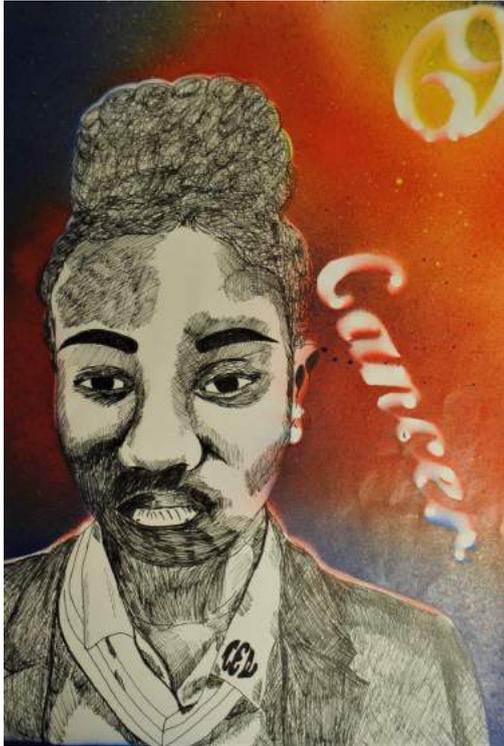
Mrs Stanislaus
Headteacher



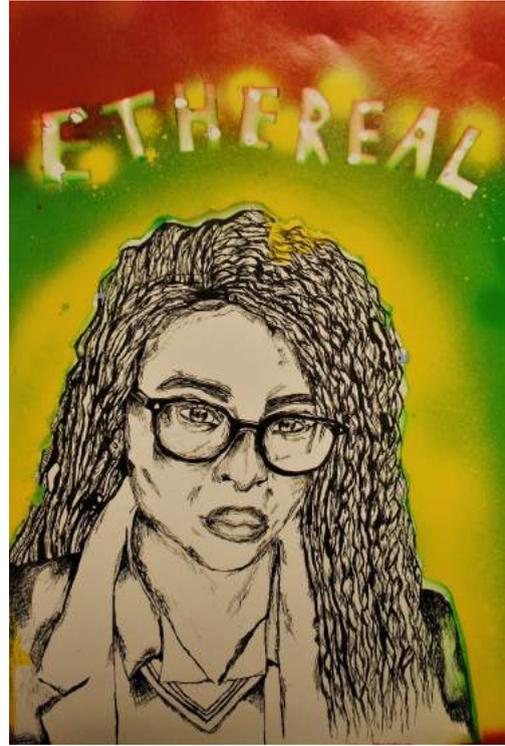
ART

This is a final selection of work from those students who have been working in school and completing a range of GCSE coursework tasks; from observational drawing, printing and painting, that have been based on the theme of human identity and self identity. The girls have been working very hard over the past half term to further develop new and existing skills and have had to adapt to working under different and challenging circumstances. However, they deserve real credit and recognition for all they have achieved; so well done girls!

Amie Year 10



Audrey Year 10



Eilaf Year 10



Emily Year 10



COMPUTER SCIENCE

Apeksha Year 10

Programming - Sequence and Selection

2. The following **pseudocode** calculates the amount of postage for a parcel.

```
if type == "first-class" then
    if size == "letter" AND weight <= 100 then
        price = 1.65
    endif
    if size == "large letter" then
        if weight <= 100 then
            price = 1.95
        else if weight <= 250 then
            price = 2.37
        else price = 2.81
        endif
    endif
endif
```

1. Add the condition **if type == "first-class"** to all these rates.
2. What is the price of a large letter weighing 150gms, using first-class post? **Answer: 2.37**
3. What is the price of a large letter weighing 30gms? **Answer: 1.95**
4. What is the maximum weight for a letter? **Answer: 1.65**

4. What value is returned in x by each of the following function calls?

- (a) $x = \text{int}(4.567) = 4$
- (b) $x = \text{round}(345.862, 0) = 346$
- (c) $x = \text{float}("37.53") = 37.53$
- (d) $x = \text{sqrt}(36) = 6$

5. Write pseudocode for a program which simulates throwing two dice and then outputs the number on each die and the total of the two dice.

The predefined function `random(x,y)` generates a random integer between x and y.

```
import random
die1=random.randint(1,6)
die2=random.randint(1,6)
print("dice 1 = ", die1)
print("dice 2 = ", die2)
total= die1 + die2
print("your total is:",total)
```

ENGLISH

Year 10 students were asked to reflect on their experience of home learning under the title "Homeschooling/remote learning is a major life changing experience for students and parents"

Naomi Year 10

Many parents and students may agree or disagree on the ongoing debate around "home-learning". Children staying at home to study is not always the best way to gain an education. As a recent expert on home learning, let me tell you why.

Children need to be 'excited' to learn, when there is nothing that excites them, and they feel as if it's a job that is drowning them, why would they do it? Who will teach the children if they are not as fortunate to have educated parents with a wider learning, or to parents that simply refuse to teach them because they do not have the patience, time or enthusiasm? Where will these students be taught, their room may not have access to a computer or a suitable place when studying. Many students refer to libraries and unfortunately these are no longer open to use during this pandemic. Then where are we to escape to do our studies?

Estimates show that more than 50,000 students in the UK that are being educated at home during this difficult time find it easy, and care-free. However, what about the ones who don't feel the same? What about the numbers of families who are damaging and neglecting their child or children? It's difficult to check up on these children at such a time, sometimes it might be too late, as seen in some reports.

From my statements above, we may be able to see that maybe after all "home-learning" is a very dangerous play. With worries playing alongside it and the danger that we cannot help but watch play out, it may be best to not let learning fall out of the hands of schools.

Sienna Year 10

"Homeschooling/remote learning is a major life changing experience for students and parents"

I agree with the above statement because during my lockdown experience home learning is slightly difficult. This is because of the lack of traditional face to face learning in school. Many students may have not received the resources they need or they have no internet access at home for them to complete their tasks and assignments. Digital poverty is the buzz phrase in the media.

Unfortunately, for many parents it's even more difficult because some parents have younger children who are a distraction from supporting their child and if they are not a teacher, supporting teaching at home could be a barrier to their children's development. Most parents are key workers and may not want their child to go to school for safety reasons during Covid 19. Then again most parents now appreciate the mountain of work school children are expected to complete.

During Covid 19, I've only gone out for essential reasons like shopping and since it's been eased I've gone to the park once. I get bored easily but I try to keep myself busy. My mum is a key worker but she cannot have any face to face meetings with her boss and clients. She's currently working from home and my oldest brother is currently furlough due to his work is not essential.

Some parents may say that home learning can become a distraction, however for me there are times where I start to get tired of typing and writing so I'll have a little break and continue with my assignments. Especially when I don't quite understand, I'll have to email my teachers for better understanding. They send me Youtube videos for the task I'm doing or they'll provide me with useful websites or I'll use textbooks to help me out with the task I don't understand.

When completing my work, I spend very long depending on what it is and I don't have my break or my lunch break because I want to finish all my tasks. Usually, I complete all my tasks but now I'm taking my time. In conclusion, I don't mind this home learning experience because I still get my work done and even if I had to go back to school what I'll be doing at school is the same for at home. I quite like home learning but there are pros and cons to it during Covid 19 pandemic.

GEOGRAPHY

In Geography students have been revising Coastal Change and Conflict, a core module of Paper 2, in preparation for entering Year 11. Students were asked to answer an exam-style question to explain the formation of a spit. Shania and Gabriela showed an excellent understanding of the processes that lead to the formation of a spit and how key features such as the hooked end are created. They used a clear structure and plenty of key words. Well done!

Shania Year 10

4/4

The formation of a spit begins in the same way of a beach. Material is transported along the coast by longshore drift and is deposited on the seabed where there is a bend in the coastline or a river mouth occurs. In addition to this, more and more sediment is deposited, forming a ridge that extends out of the sea. Where freshwater and seawater are trapped behind a ridge as it forms. As the ridge extends into deeper and more open water, the tip is affected by the wind and waves approaching from different directions. These cause the end of the spit to curve.

Gabriela Year 10

4/4

Sediment is carried by longshore drift. Longshore drift is the movement of material along a coastline due to the angled approach of waves. When there is a change in the shape of the coastline, deposition occurs. A long thin ridge of material is deposited. This is the spit. A hooked end can form if there is a change in wind direction. Waves cannot get past a spit, therefore the water behind a spit is very sheltered. Spits are deposited here to form salt marshes or mud.

HISTORY

Year 10 History students have been studying the History of the Tower of London and had to choose a period of the Tower's history to investigate.

Kauthar Year 10

Notes about The Tower of London 1485-1603

The Tower of London played an important role in Tudor history. Although it wasn't a major residence for the Tudor monarchs as it had been for the Plantagenets and earlier dynasties, it did serve as a prison very frequently.

The Tower of London came to the fore during the Tudor period, when it became a notorious, blood stained prison. Many of the modern legends associated with the Tower – from the murder of the princes to the beheading of Boleyn – occurred back then.



HUMANITIES

Year 9 students had to write about the history and geography of their favourite holiday destination.

Shani Year 9

Cornwall, the place full of history and memories...

My favourite holiday destination is white acres; it's a caravan and villa park in Cornwall. It's my favourite destination because it had such a lovely view and where we stayed was nice. There were three bedrooms, two bathrooms and one kitchen and a big living room with a dining table. Two places you can visit:



The Minack Theatre

If you are a person who loves the outdoors and a good performance Minack open air theatre is the place for you! It's a place where you could just go to admire the view or sit back, relax and enjoy the show.



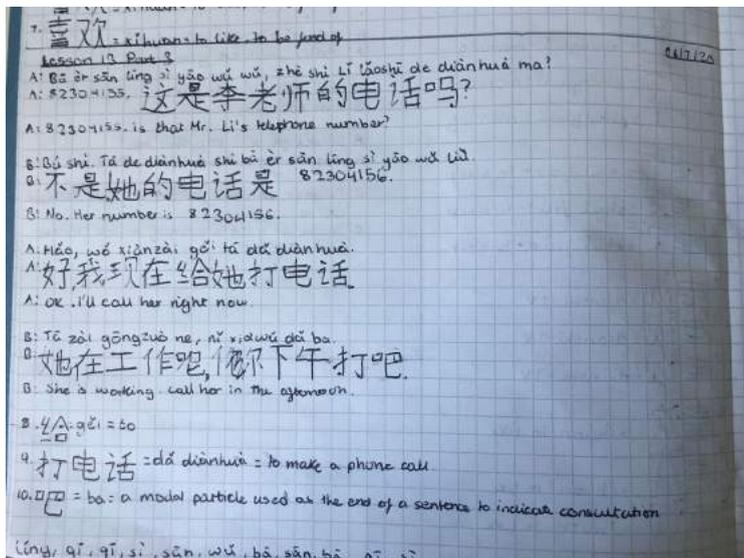
Pendennis Castle

History lovers, this is the place for you! The Pendennis Castle in Falmouth is an artillery fort constructed by Henry VIII between 1540 and 1542 two castles, now under the guardianship of English Heritage. You will learn a lot more if you go there yourself.

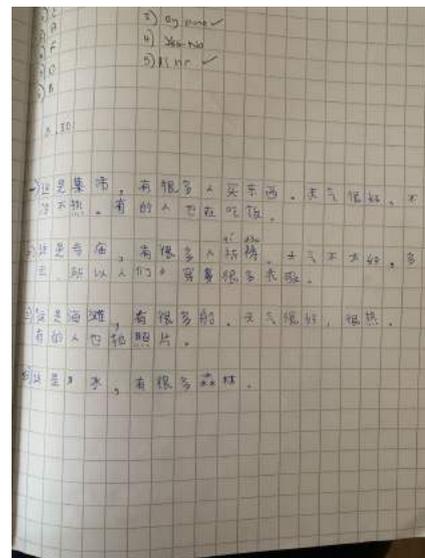


MANDARIN

Namuun Year 8



Nikera Year 10



MATHEMATICS

Shantel Year 10

weekly assessment 15/7/20

- For every £1 spends on advertising it sends \$0.41
 $\$10 = 100p$
 100×0.41
- $2\frac{1}{2} + 1\frac{2}{3}$
 $5 \times \frac{15}{7} + \frac{7 \times 7}{5} = \frac{75}{35} + \frac{49}{35} = \frac{124}{35}$
 $3\frac{19}{35}$
- $7 - \sqrt{7}$ as a single power 7
 $7^1 - 7^{\frac{1}{2}} \quad 7^{\frac{2}{2}} - 7^{\frac{1}{2}} = 7^{\frac{1}{2}}$
- 8×10^6
 8000000
- $7, 9, 11, 13, 15$
 What's the third term in the linear sequence?
- $60c + 7 = 30c - 6$
 $-30c \quad -22c$
 $30c + 7 = -6$
 $-7 \quad -7$
 $\frac{30c}{3} = \frac{-13}{3}$
 $c = -\frac{13}{3}$

- Area of circle with diameter = 16m
 $2\pi r^2$
 $2 \times \pi \times 8^2$
 $A = 64\pi$
 $A = 201.06193$
- Brian invests \$8300
 Receives 1.4% per year compound interest
 How much will he have after 7 years?
 $A = Px(1+r)^n$ $0.14 = 0.014$
 $A = 8300 \times (1+0.014)^7$
 $A = 9148.37$
- 76.782 3 significant figures
 $= 76.8$
- $x^2 + 2x = 0$
 $x(x+2) = 0$ $x = 0$
 $-2 \quad -2$ $x = -2$
 $x(x) = -2$

Ella Louise Year 7

- $5x^3 + x + 4y^2 + 2y^2 = 5x^3 + 6y^2 + x$
- $-2x^2 - 2y^2 - 2z^2 + 5x^2 - 2y - 4z = 3x^2 - 2y^2 - 2z^2 - 2y - 4z$
- $4x + 3y^2 - 7z^4 + 5z^4 + 11 - 4x + yz = -2z^4 + 4y^2 + 11$

Re = 100%

14:16pm Wed 3rd June 2020
 Simplify expressions involving multiplication

Example one:
 Simplify

- $3x \times 2y = 3xy$
- $b \times a \times 3 = 3ab$ $6ab$
 $8ba$
 $8ab$

Example two:
 Simplify

- $2 \times 5x \times 3y = 30xy$
- $b \times 4a \times 7 = 28ab$

Example three:
 Simplify

$$-2 \times \frac{5x}{10} \times \frac{5y}{10} \times \frac{3z}{10} \times \frac{2z}{10}$$

$$= -180x^2yz \quad 90x \times 2 = -180$$

Example four:
 Simplify

- $-1 \times x \times x = -x^2$ $-x^2 = (-x)^2$
- $(-x) \times (-x) = x^2$ $(-x)^2$

Quiz:

- $a \times b \times 7 = 7ab$
- $2 \times 4x \times 2y = 16yx$
- $7a \times 3 \times 2b = 24ab$
- $n \times 7 \times n = 7n^2$
- $3 \times n \times n = 3n^2$
- $(8f)^2 = 64f^2$
- $(5n)^2 = 25n^2$
- $-4 \times 8 \times h = -32h$

SCIENCE

Robyn Year 7

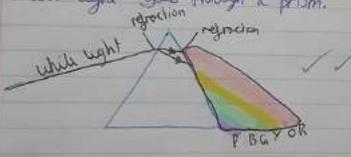
4.2.4 The eye and vision

- State which parts of the eye focus the light
The cornea and the lens ✓
- State the types of reaction that take place in the retina
A chemical reaction ✓
- State which lens corrects short sight
The concave lens ✓
- State which lens corrects long sight
The convex lens ✓

Summary Questions

- Copy and complete...
When you look at an apple, light reflects off the apple into your eye. The light enters your eye through the pupil. The cornea and the lens focus the light onto the retina. The light forms a real image. A chemical reaction produces an electrical signal that is sent down your optic nerve to your brain.
- Compare short-sight and long-sight.
Short-sight is when you can't see objects in the distance. If you get a concave lens in your glasses it will help. But if you are long-sighted you can't see

Summary Questions

- Copy the sentences and fill in the missing words
When white light goes through a prism, red light is refracted the least and violet light is refracted the most. This is called dispersion. A green filter transmits green light and absorbs the rest. A cyan object absorbs red light, reflects blue light, and reflects green light. A magenta object would look black in green light.
- Draw a ray diagram to show a spectrum is produced when white light goes through a prism.

- Suggest in terms of frequencies of light, why you can usually see a small amount of light coming through a red filter and green coming through a red filter and green filter when you put them together and look at a white light source.
Any white light source emits all the frequencies of light. So the filter absorbs most frequencies but it also transmits a narrow range of frequencies.

Mariana Year 9

January 13th June 2000
99.1 energy demands
99.1% of your energy demands are met today.

→ world energy demand and sources of energy



Renewable

- Natural gas
- coal
- oil

Renewable

- wind
- solar
- biomass
- hydro

Power stations

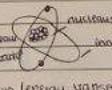
- coal: all power stations the burning heat boils water in a boiler.
- this produces steam (the steam drives a turbine that turns an electricity generator).

Biomass → fuel taken from living or recently living animals (used for transport or generators at power stations)

- * biomass are renewable because it's biological source either regrows or continuously produces (which means it is used at the same rate that it is replaced)
- * carbon neutral because the carbon taken in from the atmosphere is then given released when the boiler is burnt.

Nuclear fuel:

- stores energy from atoms
- uranium / plutonium used in nuclear power stations
- made up of a uranium atom



- is unstable so it can split in two (energy released from nucleus when this happens)
- becomes very hot (so because there are alot of uranium atoms)
- energy transferred by coolant is used to heat water to steam - steam drives turbines that turn electricity generators.

Nuclear fuel gives out radioactive waste, which has to be stored until it becomes non-radioactive.

most food swallowed moved down oesophagus

contains amylase which breaks down starch

food mixed with bile

saliva, secreted can digest stomach

mouth

acidic & powerful kills bacteria & viruses

hydrochloric acid

cell → tissue → organ → organ system

lipase → breaks down fatty acids

Enzymes are proteins that increase rate of reactions

PH in stomach is acidic

PH in small intestine is alkaline

special chemical to speed receptors up or down

these are all enzymes

enzymes can build larger molecules from smaller ones

stomach has muscle tissue to churn the food to enhance digestion

food mixed with digestive juices

enzymes break protein down

hydrochloric acid kills bacteria

mouth → oesophagus

liver

gall bladder

stomach

large intestine

small intestine

Anus

converting food to glucose

absorb vitamins and water

nutrients absorbed here

CONGRATULATIONS TO SARAH IN YEAR 11, OUR LOCKDOWN ARTIST-IN-RESIDENCE



'As you know, we love seeing your posts on twitter. We were struck by the Black Lives Matter picture drawn by Sarah who was in Year 11 at St Martin in the Fields secondary school. Sarah has kindly agreed that we can use her artwork as a logo for the Lambeth Schools Partnership.'

Extract from the latest letter from Cathy Twist, Lambeth's Director of Education and Learning and Clare Dudman, Assistant Director of School Quality Assurance and Partnership.

Sarah was delighted when Lambeth Schools Partnership, part of Lambeth's Education and Learning, asked permission to use her #BLM image as a footer in all their correspondence. They came across it on Twitter, where her image has gained thousands of impressions.

END OF YEAR MESSAGES FROM STUDENTS

These messages were sent in by a selection of students from across the school .

Thank you for all the support and resources provided. Hope you're all doing well. *Sofia*

Thanks for helping in my Year 7 experience.

Hannah

I miss you and you are the best. *Bushra*

Thank you for being understanding when I turn in my homework late, and I look forward to seeing you. *Toluwalope*

Enjoy summer! *Sariya*

I miss you 😭 *Vanessa*

Year 10 have been the main focus of the school at the moment and we are struggling to go through our day to day lives with some of us looking after siblings or completing loads of chores alongside our school work. It isn't, however, noticed enough that teachers have their own lives in which they must care for their own families in lockdown, not to mention the marking and lessons to be regularly posted for the benefit of us. So I want to say 'thank you' to all the teachers that both understand our difficulty in this and have therefore made allowances, but also haven't given up in the task to keep up with what we would usually have done in our school environment. (: *Aliya*

Thank you for giving me work that challenges me and may God keep all the teachers safe and well And enjoy your summer holiday. *Sylvia*

Stay safe and enjoy your break x.

Geraldine

Have a wonderful summer. *Delina*

Thank you for teaching us and providing us with resources and lessons even if we're away from each other. *Judith*

Thank you for supporting us and motivating us to not slack behind. :) *Apeksha*

I hope you all have an amazing summer and enjoy the time with your families.

Angel

I can't wait to see them and I miss them so much and I will always remember them

FOREVER!!! *Nasima*

Thank you to all the teachers who have supported us even though we are far away from each other. *Namuun*

I miss you all very much.

Chardonnay



Nelson Mandela

All he asked for was peace
But the fights never ceased,
All he wanted was goodwill,
But the pain was unreal.

He suffered many sufferings,
He soldiered through the sufferings,
He cried many tears,
He's spoken still he fears.

Fears his people have no future,
Fears he's lost his pride ,
Fears he'll live behind bars when he didn't do the crime.

Nelson Mandela show us the way,
Nelson Mandela always used to say,
A winner is a dreamer who never gives up,
He never gave up or won out of luck.

Sapphire Year 7