

Thursday 14th May 2020

Good Morning everyone. Welcome to your home learning. Let's start the day with some amazing facts about the human body.

1. Bodies give off a tiny amount of light that's too weak for the eye to see.
2. The average person has 67 different species of bacteria in their belly button.
3. You lose about 4kg of skin cells every year!
4. Babies don't shed tears until they're at least one month old.

Yesterday's Maths answers - Roman Numerals.

Section A

1. 7	2. 28	3. 44	4. 90	5. 35	6. 72
7. 59	8. 46	9. 68	10. 94	11. 19	12. 81
13. 43	14. 24	15. 77	16. 96		

Section B

1. 147	2. 409	3. 860	4. 228	5. 392	6. 974
7. 752	8. 541	9. 629	10. 197	11. 816	12. 455
13. 780	14. 314	15. 933	16. 289		

Section C

William I = 1066 -1087
Henry V = 1413 -1422
Charles I = 1625 - 1649
George VI = 1936 -1952

Richard I = 1189 - 1199
Henry VIII = 1509- 1547
George III = 1760 -1820

Edward I = 1272 -1307
Elizabeth I = 1558 -1603
Victoria I = 1837 -1901

Today's Maths Task

Remember to keep logging on to Time Table Rockstars -
Make sure you have 10 minutes at least today. See if you can increase your speed or beat your score.



Your next task is to remind yourself about square numbers.

To find a square number - you multiply a number by itself. This would also help you calculate the area of a square.

Complete the questions on the next page in your book.

Square Numbers

When a number has been multiplied by itself, we say that the answer is a square number.

$1 \times 1 = 1$	$2 \times 2 = 4$	$3 \times 3 = 9$														
<table><tr><td>1</td></tr></table>	1	<table><tr><td>1</td><td>2</td></tr><tr><td>3</td><td>4</td></tr></table>	1	2	3	4	<table><tr><td>1</td><td>2</td><td>3</td></tr><tr><td>4</td><td>5</td><td>6</td></tr><tr><td>7</td><td>8</td><td>9</td></tr></table>	1	2	3	4	5	6	7	8	9
1																
1	2															
3	4															
1	2	3														
4	5	6														
7	8	9														

We can write three squared as 3×3 or 3^2

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A

- 1 Complete this table up to 12^2 .

$$1^2 = 1 \times 1 = 1$$

$$2^2 = 2 \times 2 = 4$$

$$3^2 = 3 \times 3 = 9$$

Work out the area of each square.

2

Sides
5 cm

7

Sides
11 cm

3

Sides
9 cm

8

Sides
7 cm

4

Sides
10 cm

9

Sides
4 cm

5

Sides
6 cm

10

Sides
12 cm

6

Sides
3 cm

11

Sides
8 cm**B**

Work out

1 $5^2 + 2^2$

7 $10^2 + 6^2$

2 $11^2 + 4^2$

8 $7^2 + 3^2$

3 $6^2 + 3^2$

9 $12^2 + 1^2$

4 $7^2 - 4^2$

10 $10^2 - 5^2$

5 $9^2 - 5^2$

11 $11^2 - 9^2$

6 $8^2 - 2^2$

12 $8^2 - 4^2$

Work out

13 10^2

19 70^2

14 20^2

20 50^2

15 60^2

21 40^2

16 80^2

22 90^2

17 30^2

23 120^2

18 110^2

24 100^2

Find a pair of square numbers which give a total of:

25 20

31 2000

26 85

32 6500

27 37

33 9000

28 89

34 14 900

29 153

35 6100

30 170

36 7200

C

Work out

1 100^2

7 $100^2 - 70^2$

2 200^2

8 $40^2 + 20^2$

3 500^2

9 $70^2 - 30^2$

4 800^2

10 $60^2 + 50^2$

5 600^2

11 $90^2 - 30^2$

6 1000^2

12 $80^2 + 40^2$

Lagrange's Theorem

Every whole number can be written as the sum of four or fewer square numbers.

Examples

$$19 = 16 + 1 + 1 + 1$$

$$35 = 25 + 9 + 1$$

Make the following numbers from four or fewer square numbers.

13 23

19 123

14 31

20 142

15 48

21 483

16 63

22 933

17 79

23 3485

18 96

24 8058

Task 2 - English - Grammar - the articles a / an / the

Copy and complete the sentences in your exercise book - using the correct article. Remember to keep that handwriting to a high standard - use your kinetic letters.

Our family stayed in ____ awesome hotel.

____ children of Blowers Green are extremely polite.

Yesterday I saw ____ enormous tiger.


I always use ____ umbrella when it rains.


We landed on ____ island.

article

a
an
the


Frank:
a friend!





Billy: **the** boxer

Gerald:
an artist



Mr Thompson has ____ dotted patterned tie.
Amazingly, we saw ____ elephant at the zoo.
I was shocked to see ____ price of a haircut.
We will wait no longer than ____ hour.

The next paragraph contains many incorrect homophones. Copy out the passage making sure you are using the correct spelling of the word for the context. Remember to punctuate correctly too.



Homophones - correct the spelling

I maid my weigh down the rode. Suddenly, eye sore a white
hoarse.

"Wear are ewe off two?" eye asked.

"Too sea the see and watch the son go down."

"Isle come with you." I said.

I court him and wee road together, while the wind blue in
our hare.

Eventually wee arrived their.

"Hear wee are." he announced.

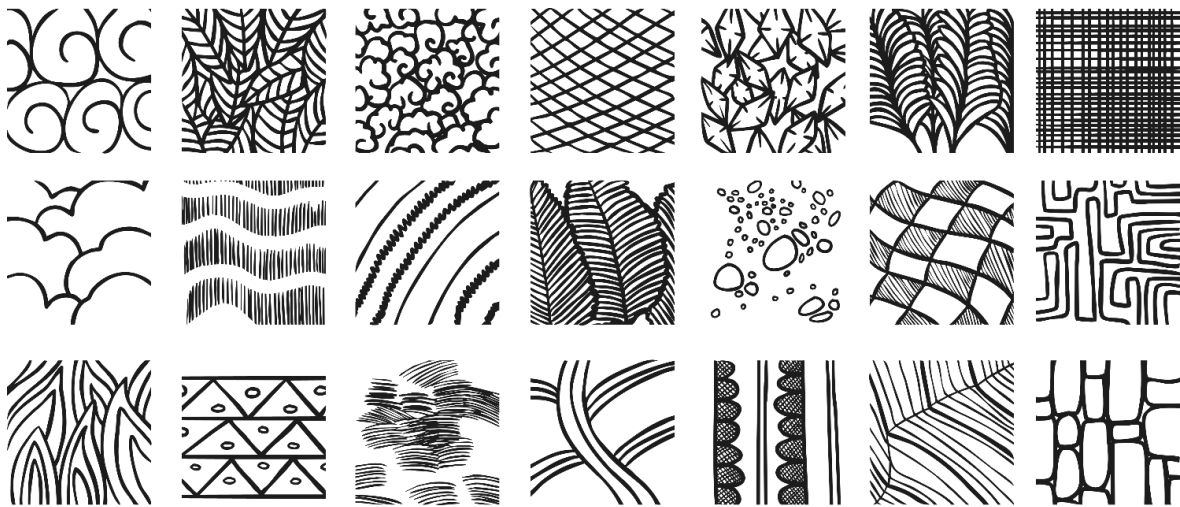
Task 3 – Art – Observational drawing.

I thought it would be enjoyable (and relaxing) to concentrate on our sketching and drawing.
A few things to remember:

- Texture is the feeling, appearance or consistency of an object or material.
It can be natural or man-made, functional or decorative. Artists try to replicate the texture of the subject to make their work look as realistic as possible.

There is a clip here to remind you of some of the key elements of using a pencil to draw.

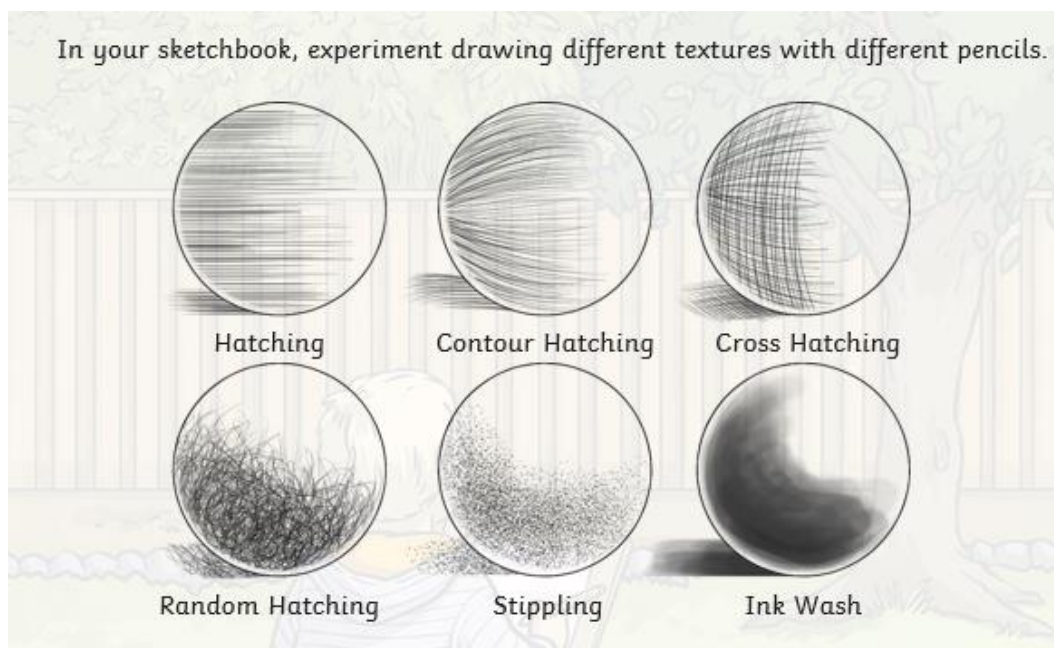
<https://www.bbc.co.uk/bitesize/clips/zcqcjxs>



Have a go at sketching these textures. Use a nice sharp pencil – focus closely on the detail.

Watch the following video to find out more about shading, then try it out yourself in your sketchbook. Use the diagram to help you.

<https://www.bbc.co.uk/bitesize/clips/zxyxfq8>



Don't forget to email me the results - I really do enjoy seeing your artwork.

It is Thursday and Mr Rhodes has once again uploaded your **Music** lesson to Youtube - Remember the Music session is optional - it is there if you want to do it.

The link is here: <https://www.youtube.com/watch?v=xHSSGtGgl00>



Finally can I just remind you about reading - it is so vitally important - even more so in this time we are away from school. Try and spend around 10 -15 minutes a day reading. Also remember to keep your home-school reading diary up to date.

Keep up the good work and stay safe.

Mr Thompson

