



WEEKLY PARENTS BULLETIN NO 3 – WEEK A

Week Commencing 18 th September 2023	
Monday 18 th September	Open Day tours running all week
Tuesday 19 th September	Year 9 Assembly with Mr Brand
Wednesday 20 th September	Year 10 Assembly with Mr Brand
Thursday 21 st September	
Friday 22 nd September	Mr John Sullivan in school – Mr Brand

The real highlight this week was our Open Evening. It was a great event with nearly 200 families coming through our doors on Thursday evening to see and hear about the great things happening at our school. It was lovely to hear such positive feedback from our visitors who were incredibly complimentary about the pride with which our wonderful students talked about our school when taking them on tours. I'd like to say a huge, huge thank you to all of our students who stayed late on Thursday night – you did a brilliant job in showcasing our school!

Please see some of the photos, below, showing the different activities in each of our subjects. If you missed the event but would still like to come for a look around, you can book a tour on one of our "everyday open day" tours using the link on our website <https://thedeanacademy.org/>.

Well done to this week's Year 11 "embrace the geek" prize winners. Teachers are rewarding students for effort and hard work and students put their geek cards into a weekly raffle. Well done to Willow N, Thomas O, Ashton F and Ruby E who all won prizes in the draw on Monday. Next week has some **big** prizes on offer but you've got to be in it to win it!

We launched our lunchtime/afterschool extra-curricular programme through our tutor bulletin on Monday morning. It was brilliant to see our new Year 7s wasting no time getting involved straight away! Parents can see the full programme of clubs and activities below – please talk through with your child and encourage them to try something new.





**THE DEAN
ACADEMY**

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EXTRA-CURRICULAR - WEEK A

	Monday	Tuesday	Wednesday	Thursday	Friday
Tutor		EPP Sport Gym		EPP Sport Gym	
Lunchtime	Year 7 Girls Football Astroturf	Year 8 Girls Football Astroturf	Year 9 Girls Football Astroturf	Year 10 Girls Football Astroturf	Year 11 Girls Football Astroturf
Lunchtime	Year 7 Basketball Sports Hall	Year 8 Basketball Sports Hall	Year 9 Basketball Sports Hall	Year 10 Basketball Sports Hall	Year 11 Basketball Sports Hall
Lunchtime	Chess Club Year 7, 9 & 10 P1	Chess Club Year 7, 9 & 10 P1	Chess Club Year 7, 9 & 10 P1	Chess Club Year 7, 9 & 10 P1	Chess Club Year 7, 9 & 10 P1
Lunchtime		Chess Club Year 8 & 11 P1		Lego & Games Year 8 & 11 H3	Lego & Games Year 7, 9 & 10 H3
Lunchtime				Jazz Band Year 8 & 11 D Block	Writers Club All Years G2

EXTRA-CURRICULAR - WEEK A

	Monday	Tuesday	Wednesday	Thursday	Friday
Afterschool	Homework Club All Years Y1	Homework Club All Years Y1	Homework Club All Years Y1	Homework Club All Years Y1	
Afterschool	Band All Years D Block	Dance Club All Years M1	Rock Band All Years D Block	Clay Club All Years Art Rooms	
Afterschool	Geography Homework & PPQ Year 11 E11	Zoology All Years S7	Photography All Years S1 & Dark Room	Basketball All Years Sports Hall	
Afterschool	Boxing Club All Years Gym		Science Arts & Crafts Year 7, 8 & 9 S5		
Afterschool			Table Tennis All Years Sports Hall		

ENJOYMENT

ACHIEVEMENT

COMMUNITY



EXTRA-CURRICULAR - WEEK B

	Monday	Tuesday	Wednesday	Thursday	Friday
Tutor		EPP Sport Gym		EPP Sport Gym	
Lunchtime	Year 7 Girls Football Astroturf	Year 8 Girls Football Astroturf	Year 9 Girls Football Astroturf	Year 10 Girls Football Astroturf	Year 11 Girls Football Astroturf
Lunchtime	Year 7 Basketball Sports Hall	Year 8 Basketball Sports Hall	Year 9 Basketball Sports Hall	Year 10 Basketball Sports Hall	Year 11 Basketball Sports Hall
Lunchtime	Chess Club Year 8 & 11 P1	Chess Club Year 8 & 11 P1	Science Arts & Crafts Year 7, 8 & 9 S5	Lego & Games Year 8 & 11 H3	Lego & Games Year 7, 9 & 10 H3
Lunchtime				Chess Club Year 8 & 11 P1	
Lunchtime				Jazz Band Year 8 & 11 D Block	

EXTRA-CURRICULAR - WEEK B

	Monday	Tuesday	Wednesday	Thursday	Friday
Afterschool	Homework Club All Years Y1	Homework Club All Years Y1	Homework Club All Years Y1	Homework Club All Years Y1	
Afterschool	Band All Years D Block	Dance Club All Years M1	Rock Band All Years D Block	Clay Club All Years Art Rooms	
Afterschool	Geography Homework & PPQ Year 11 E11	Zoology All Years S7	Photography All Years S1 & Dark Room	Basketball All Years Sports Hall	
Afterschool	Boxing Club All Years Gym		Science Arts & Crafts Year 7, 8 & 9 S5	Rugby All Years Fields	
Afterschool			Table Tennis All Years Sports Hall		
Afterschool			Debate Club All Years G3		

Congratulations to the following weekly winners of our attendance raffle week ending 8th September:

KS3 - Nellie-Jo in Year 7

Ks4 - Luke E in Year 11

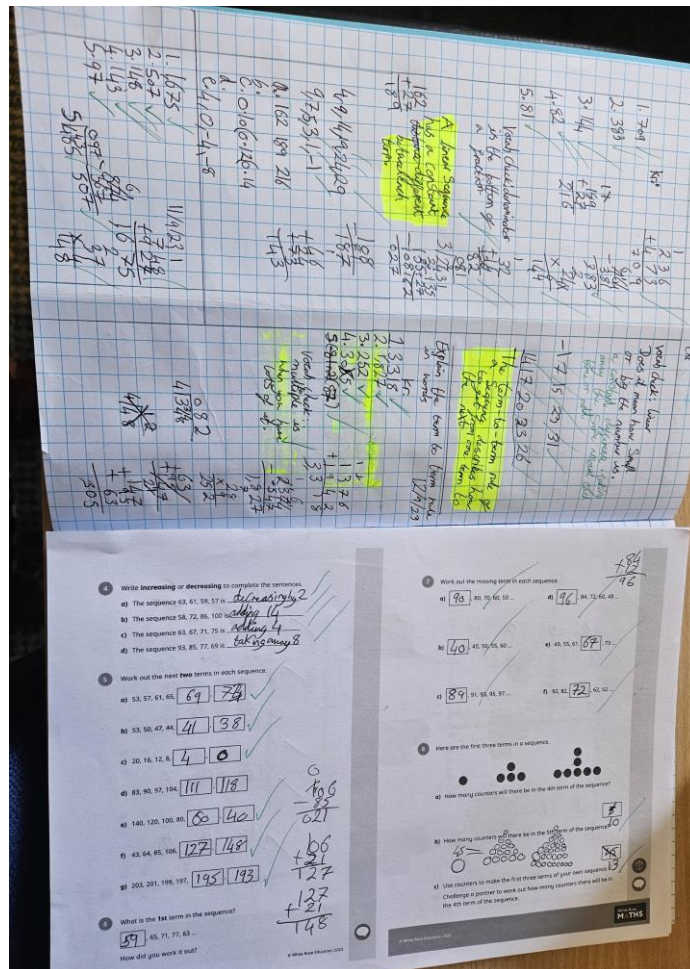


MUSIC

Well done to our amazing pianists who are now working at a Grade 2 level: Corey L, Ava P, Willow B, Jacob B, Koby P, Courtney G and Lucas P. Well done for all your hard work and dedication. (Mr Fessey)

MATHS

Year 7 Maths with Miss Weaver.



George C



Handwritten student work for Harriet G. The left page shows algebraic sequences with terms like $1, 2, 3, 4, 5$ and $1, 2, 3, 4, 5, 10$. It includes calculations like $1 + 2 + 3 + 4 + 5 = 15$ and $2 + 3 + 4 + 5 + 6 = 20$. The right page is titled 'Continue the sequence' and shows a sequence $1, 2, 3, 4, 5$ with a term-to-term rule of $+1$. It also shows a sequence $1, 2, 3, 4, 5, 10$ with a term-to-term rule of $+1$ for the first four terms and $+5$ for the fifth. The bottom right page is a worksheet titled 'Term-to-term rules' with questions like 'What is the 1st term of the sequence?' and 'What is the 2nd term of the sequence?' with handwritten answers 18 , 25 , 39 , and 5^{th} .

Harriet G

Handwritten student work for Olivia C. The left page is a worksheet titled 'Continue number sequences' with questions like 'Complete the workings to show how the terms in each sequence change.' and 'Complete the workings to find the next term in each sequence.' The right page is titled 'Continue a linear sequence' and shows a sequence $7, 4, 8, 9, 2, 7, 16, 7, 5$ with a term-to-term rule of -3 . It also shows a sequence $8, 14, 20, 26, 32, 38, 44, 50, 56$ with a term-to-term rule of $+6$. The bottom right page is a worksheet titled 'The term-to-term rule' with questions like 'What is the 1st term of the sequence?' and 'What is the 2nd term of the sequence?' with handwritten answers 7 and 78 .

Olivia C



Tables and Area

1. $2 \times 2 = 4$ ✓
 $3 \times 3 = 9$ ✓
 $4 \times 4 = 16$ ✓
 $5 \times 5 = 25$ ✓

2. $3 \times 4 = 12$ ✓
 $4 \times 5 = 20$ ✓
 $5 \times 6 = 30$ ✓

3. $6 \times 7 = 42$ ✓
 $7 \times 8 = 56$ ✓
 $8 \times 9 = 72$ ✓

4. $9 \times 10 = 90$ ✓

5. $10 \times 11 = 110$ ✓

6. $12 \times 13 = 156$ ✓

7. $14 \times 15 = 210$ ✓

8. $16 \times 17 = 272$ ✓

9. $18 \times 19 = 342$ ✓

10. $20 \times 21 = 420$ ✓

Linear Sequences

1. $1, 2, 3, 4, 5$
 $2 - 1 = 1$
 $3 - 2 = 1$
 $4 - 3 = 1$
 $5 - 4 = 1$
 Difference: $+1$

2. $2, 4, 6, 8, 10$
 $4 - 2 = 2$
 $6 - 4 = 2$
 $8 - 6 = 2$
 $10 - 8 = 2$
 Difference: $+2$

3. $3, 7, 11, 15, 19$
 $7 - 3 = 4$
 $11 - 7 = 4$
 $15 - 11 = 4$
 $19 - 15 = 4$
 Difference: $+4$

4. $5, 8, 11, 14, 17, 20$
 $8 - 5 = 3$
 $11 - 8 = 3$
 $14 - 11 = 3$
 $17 - 14 = 3$
 $20 - 17 = 3$
 Difference: $+3$

5. $1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629, 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 817, 819, 821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841, 843, 845, 847, 849, 851, 853, 855, 857, 859, 861, 863, 865, 867, 869, 871, 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931, 933, 935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961, 963, 965, 967, 969, 971, 973, 975, 977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999, 1000$

White Rose MATHS

Here is a sequence.
 $3, 23, 32, 39, 46, \dots$

a) sequence? Yes
 b) sequence? Yes
 c) sequence? Yes
 d) Is 46? Yes

5th term: 46

Between the terms in the sequence:
 $30, 37, 44, 51, 58, 64, 71, 78$

Add 7 to the previous term.
 71
 78

Annotations:
 The term-to-term rule for a sequence describes how to get from one term to the next.
 A linear sequence has a constant difference between each term.

Rosie T

11/9/23

$784 + 927 = 1711$ ✓
 $927 + 784 = 1711$ ✓
 1711

$2874 - 367 = 607$ ✓
 $37 \times 4 = 148$ ✓
 $37 \times 3 = 111$ ✓
 $46 + 24 + 73 = 143$ ✓
 $485 \div 5 = 97$ ✓
 5485

Linear Sequence
 is a constant difference between each term.

Sequence Diagram:
 $14, 17, 20, 23, 26$
 $17 - 14 = +3$
 $20 - 17 = +3$
 $23 - 20 = +3$
 $26 - 23 = +3$
 Difference: $+3$

900, 1100, 1300, 1600, 1900, 2200
 The term-to-term rule of a sequence describes how to get from one term to the next.

White Rose MATHS

3 Here is a sequence.
 $78, 72, 66, 60$

a) Work out the differences between the terms in the sequence.
 $-6, -6, -6$ ✓
 b) Complete the sentence.
 The term-to-term rule is subtract 6 from the previous term.
 c) What is the 5th term?
 54 ✓

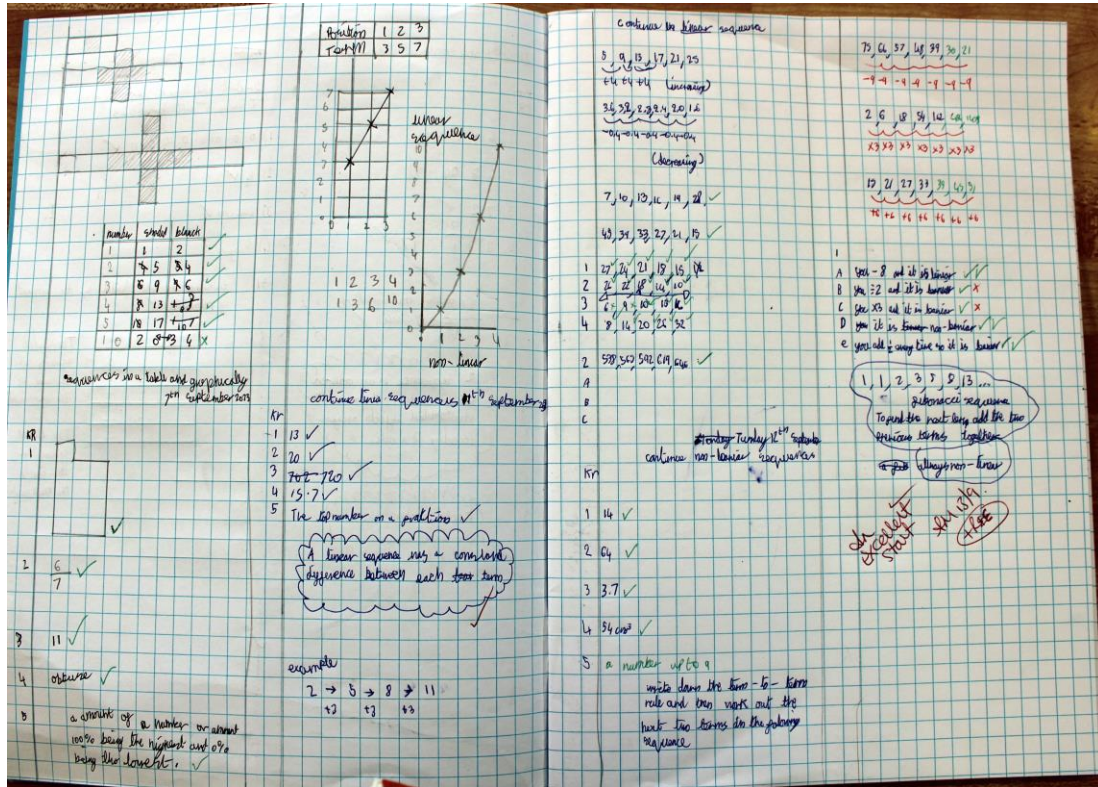
4 Match the sequences to the term-to-term rules.

$12, 18, 24, 30 \dots$ → Add 6 to the previous term. ✓
 $30, 20, 10, 0 \dots$ → Subtract 10 from the previous term. ✓
 $92, 99, 106, 113 \dots$ → Add 7 to the previous term. ✓
 $51, 47, 43, 39 \dots$ → Subtract 4 from the previous term. ✓
 $64, 68, 72, 76 \dots$ → Add 4 to the previous term. ✓
 $105, 100, 95, 90 \dots$ → Subtract 5 from the previous term. ✓

Tihanna M



Year 7 students in Ms Meredith's Maths class have made a fantastic start with their Sequences topic. Here are some great examples of their work. Well done!



Charles J



Thursday 7th September 2023
Sequences in a table graphically

Shop	Blue Squares	White Squares
1	1	2
2	5	4
3	9	6
4	13	8
5	17	10
10	31	20

N B W

W W B B E N W

W W W B B B B W W W

1. ✓

2. $\frac{6}{7}$ ✓

3. 11 ✓

4. obtuse ✓

5. percent means an amount of something
linear sequences

Position | 1 2 3
Term | 3 5 7

Position | 1 2 3 4
Term | 3 5 7

Monday 11th September

KR

1. 13 ✓

2. 20 ✓

3. 720 ✓

4. $\frac{5 \cdot 4}{1 \cdot 3} = \frac{20}{3}$ ✓

5. A numerator is an amount of something how much you have.

A linear sequence has a constant difference between each term

example $\frac{5 \quad 8 \quad 11}{+3 \quad +3 \quad +3}$

this is a linear sequence and it means that you have adding the same amount and if you do it graphically it will make a straight line!

Q1. continue the linear sequence (constant difference)

5, 9, 13, 17, 21, 25 ✓
 $+4$ (increasing)

Q2. $3, 6, 3, 2, 2\frac{1}{2}, 2, 1, 2, 0, 1, 6$
diff -0.4

Q3. $1, 0, 1, 3, 1, 6, 1, 9, 2, 2$ ✓

Q4. $4, 5, 3, 9, 3, 3, 2, 7, 2, 1, 5$ ✓
 $+1 \quad -2 \quad +6 \quad -4 \quad -4$

Eliza K

Monday 11th September 2023
Continued Linear Sequences KR

1. 13 ✓

2. 20 ✓

3. 720 ✓

4. 157 ✓

5. Vocal Check: Numerator
The Numerator is the number at the top of a fraction
e.g. $\frac{2}{3}$ Numerator

A linear sequence has a constant difference between each term

2, 5, 8, 11 → Example
 $+3 \quad +3$

5, 9, 13, 17, 21, 25
 $+4 \quad +4 \quad +4 \quad +4$ Continue the linear sequence

3, 6, 3, 2, 2.5, 2, 1.5
 $-3 \quad -3 \quad -1 \quad -1$ You are being tripped that the number added on doesn't change

2.0, 1.5
 -0.5

Monday 7th September 2023
Sequences in a table and graphically

KR

Vocal Check: Percent - Out of 100 (%) ✓

Position | 1 2 3
Term | 3 5 7

1. ✓

2. $\frac{6}{7}$ ✓

3. 11 ✓

4. Obtuse ✓

Monday 12th September 2023
Continue non-linear sequences KR

1. 14 ✓

2. $\frac{6 \cdot 4}{2}$ ✓

3. 3.7 ✓

4. $\frac{5 \cdot 4}{2}$ ✓

5. Vocal Check: Digit
The digit is a number in general
e.g. (1234) - Digit

Write down the term-to-term rule and then work out the next two terms in the following sequence.

75, 66, 57, 48, 39, 30, 21, 12 ✓

2, 6, 18, 54, 162, 486, 1458
 $\times 3 \quad \times 3 \quad \times 3 \quad \times 3 \quad \times 3 \quad \times 3$

15, 21, 27, 33, 39, 45, 51 ✓
 $+6 \quad +6 \quad +6 \quad +6 \quad +6$

1, 1, 2, 3, 5, 8, 13 ✓
 $+0 \quad +1 \quad +2 \quad +3 \quad +5$

This is a Fibonacci sequence to find the next term add the two previous terms together.
ALWAYS NON LINEAR!

Superb!
not the 154
 $\times 12$

Georgiana D



Tuesday 5th September 2023
Predict and check next terms

-✓
- 14✓
- 20, 6im ✓ $\begin{matrix} 16.0 \\ + 04.6 \\ \hline 20.6 \end{matrix}$
- Hexagon ✓

5. The mean is where you get some numbers, add them and divide by how many numbers there were ✓

R	Y	Y	Y
R	R	Y	Y
R	R	R	Y
R	R	R	R

Shape	Red	Yellow
Number	Squares	Squares
1	1	3
2	2	6
3	3	9
4	4	12
5	5	15
Shape	Blue	White
Number	Shapes	Squares
1	3	4
2	6	8
3	9	12
4	12	16
5	15	20
10	30	40

I do the square number $\times 2$ to get the white squares
I do square number $\times 4 - 3$ to get the white blue squares

Thursday 6th September 2023
Sequences in a Table and Graphically

- | | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
- $\frac{6}{7}$ ✓
- $3 \rightarrow 11 / 16$
 $+ 10$
- Obuse ✓ $\frac{7}{33}$
- Percent is how much there is of something ✓

Position	1	2	3
Term	3	5	7

Value of Term
7
6
5
4
3
2
1
0 1 2 3

Linear Sequence

Position	1	2	3	4
Term	1	3	6	10

Max H

Sequences in a table and graphically Thursday 7th September

Continue linear sequences Monday 11th September

- 1, 3 ✓
- 2, 0 ✓
- 7, 2, 0 ✓
- 1, 5, 7 ✓
- It's the top number, or a fraction ✓

A linear sequence has a constant difference between each term

Example: 2, 5, 8, 11

A linear sequence: 5, 4, 1, 1, 2, 1, 2, 5 ← Increasing constant difference

3, 6, 3, 2, 2, 3, 2, 4, 2, 1, 1, 6 ← decreasing

7, 10, 13, 16, 19, 22 ✓

45, 39, 33, 27, 21, 15 ✓

6, 10, 14, 18, 22, 26 ✓

4, 7, 10, 13, 16 ✓

8, 14, 20, 26, 32 ✓

538 55 572 619 646
25, 44, 67 82 101 120

Continue non-linear sequences Tuesday 12th September

- 14 ✓
- 64 ✓
- 3, 7 ✓
- 5 then 2 ✓

A digit is a single number in a number ✓

The term-to-term rule of a sequence describes how to get from one term to the next.

write down the term to term rule and then work out the next 2 terms in the following sequences

75, 66, 57, 48, 39, 30, 21
-9 -9 -9 -9 -9
Subtract 9 each time

2, 6, 18, 54, 162, 486, 1458 ✓
times each number by 3 ✓

15, 21, 27, 33, 39, 45 ✓
add 6 each time ✓

7, 65, 57, 49 ✓
linear there is a difference ✓
10, 20, 12, 6
non-linear half each time ✓

1, 3, 9, 27, 81 $\frac{10}{10}$
non-linear multiply by 3 ✓

1, 7, 11, 18, 29
non-linear add the last number ✓

E $\frac{1}{2}, 1, \frac{3}{2}$
linear add half ✓

1, 1, 2, 3, 5, 8, 13, 21
A Fibonacci sequence is where you add the 2 previous terms together. It's always non-linear

Tia A



Thursday 7th September 2023
Arithmetic Sequences

Sentences in a table and typically

Step Number	Red Squares	Green Squares
1	1	2
2	5	4
3	9	6
4	13	8
5	17	10
6	21	12

1) $1, 3, 5, 7, 9, 11$
2) $1, 4, 9, 16, 25$
3) $1, 4, 9, 16, 25$
4) $1, 4, 9, 16, 25$
5) $1, 4, 9, 16, 25$

Position | 1 2 3 4
Term | 3 5 7

Value of term
Position

Monday 11th September 2023
Continue Linear Sequences

1) $1, 3, 5, 7, 9, 11$
2) $2, 4, 6, 8, 10, 12$
3) $3, 6, 9, 12, 15, 18$
4) $4, 8, 12, 16, 20, 24$
5) $5, 10, 15, 20, 25, 30$

Tuesday 12th September 2023
Continue Linear Sequences

1) $1, 4, 9, 16, 25, 36$
2) $1, 4, 9, 16, 25, 36$
3) $1, 4, 9, 16, 25, 36$
4) $1, 4, 9, 16, 25, 36$
5) $1, 4, 9, 16, 25, 36$

Travis H

Year 8 Maths work

Calculations
 $24 \div 8 = 3$
Dora $\rightarrow 3 \times 3 = 9$
Jack $\rightarrow 5 \times 3 = 15$
Friday 9th September
Divide a value into given Ratio

1) $1:2$
2) $1, 20, 2, 10, 4, 5$
3) 0.7
4) 30

A factor is a number that can divide into an integer.

a) Vanessa = £90
b) Kai = £21
c) Sam and Tom
d) Matt = £35
e) Amy = £8 Both
f) Colin = £6
g) £48
h) £45

Anna and Andy shared some sweets in the ratio 3:7
Andy got the more than Anna
How many sweets in total
Anna $4 \times 4 = 16$
Andy $4 \times 4 = 16$

Calculations
 $16 \div 4 = 4$
 $4 \times 10 = 40$
Sweets = 66

11th September 2023

1) 5
2) 7
3) $S = 1, 2, 3, 4, 5, 6$
4) 0.3
Product is

1) 2:1 because it is fully simplified

14:4
a) $100:20 = 5:1$
b) $60:45 = 4:3$
c) $2000:3600 = 5:9$
d) $20:35 = 4:7$

12th September 2023
Express ratios in the form a:b

1) $1, 6, 7, 21, 14, 42$
2) B, A, D
3) a = Scalene
b = equilateral
c = isosceles
d = scalene

4) $A = x, y, z, a, s$

Bronwen



Solve ratio problems in the following form 1 in and 1 in Tuesday 5th sept

1) 3:2
2) 24
3) 4
4) 12
5) Cumulative
You can flip the numbers around and still get the same answer: eg $2 \times 3 = 6$ $3 \times 2 = 6$.

1) 2:5
2) 1:2
3) 5:7
4) 520
a) 545
b) 50

Solve ratio problems in form 1 in and 1 in Wednesday 6th September 2023

1) 2:3
2) 30
3) 35%
4) 0.3
5) Quadrilateral in a 4-sided 2D shape
For every 3 blue counters in a box there are 5 red counters.
There are 120 red counter. How many blue counters are there?

B $\begin{array}{|c|c|c|} \hline 24 & 24 & 24 \\ \hline \end{array}$
R $\begin{array}{|c|c|c|c|c|} \hline 24 & 24 & 24 & 24 & 24 \\ \hline \end{array}$
120
 $120 : 5 = 24$
 $24 \times 3 = 72$

B $\begin{array}{|c|c|c|} \hline 15 & 15 & 15 \\ \hline \end{array}$
R $\begin{array}{|c|c|c|c|c|} \hline 15 & 15 & 15 & 15 & 15 \\ \hline \end{array}$ (75) $75 : 5 = 15$
 $15 \times 3 = 45$
B = 45

Dora and Jake share £8 in the ratio 3:5. How much money do they each receive?

D $\begin{array}{|c|c|c|} \hline 6 & 6 & 6 \\ \hline \end{array}$
J $\begin{array}{|c|c|c|c|c|} \hline 6 & 6 & 6 & 6 & 6 \\ \hline \end{array}$
 $48 : 8 = 6$ D $\rightarrow 3 \times 6 = \pounds 18$
J $\rightarrow 5 \times 6 = \pounds 30$

D $\begin{array}{|c|c|} \hline 8 & 8 \\ \hline \end{array}$
J $\begin{array}{|c|c|c|c|} \hline 8 & 8 & 8 & 8 \\ \hline \end{array}$ (840) $40 : 5 = 8$
D $\rightarrow 3 \times 8 = \pounds 24$
J $\rightarrow 5 \times 8 = \pounds 40$

Friday 8th September 2023
Divide a value into a given ratio

1) 4:12
2) 1:20, 2:10, 4:5
3) 7:5
4) 360°
5) Factors
a factor is the numbers that times together to make a number.

a) $\begin{array}{|c|c|c|c|c|} \hline 16 & 16 & 16 & 16 & 16 \\ \hline \end{array}$) 128
5 $\begin{array}{|c|c|c|} \hline 16 & 16 & 16 \\ \hline \end{array}$
 $v = 880$ $128 : 8 = 16$

b) $84 : 4 = 21$
 $F = 21$

c) $45 : 9 = 5$ $5 \times 2 = 10$ (10) (35cm)

d) $375 : 15 = 25$
 $25 \times 13 = 325$

e) $36 : 9 = 4$ A = 8 B = 12 C = 6

Eve I



Don = £18
Jack = £30

Friday 8th September 2023

Divide a value into a given ratio

KR

- 1, 2 blue numbers ✓
- $$\begin{array}{r} 20 \\ 2 \overline{) 40} \\ \underline{40} \\ 0 \end{array}$$
- 75% ✓
- 360° ✓
- A factor is an integer that can be multiplied by another integer to create a given number ✓

a) $36 \div 9 = 4$
Amy = $4 \times 2 = 8$
Beth = $4 \times 3 = 12$
Colin = $4 \times 4 = 16$ ✓

b) $\frac{36}{2} \div 12 = 1.5$
 $\frac{36}{3} \times 7 = 84$ ✓

c) $108 \div 9 = 12$
 $12 \times 4 = 48$ ✓

d) $75 \div 5 = 15$
 $15 \times 3 = 45$ ✓

e) $2 = \frac{60}{30}$
Lillian = £60 ✓

f) $\frac{0.3}{2.4} = \frac{3}{24} = \frac{1}{8}$
A = $\frac{3}{8}$
B = $\frac{5}{8}$
C = $\frac{4}{16}$
C = $4 \times 15 = 60$ ✓

- $18 \div 2 = 9$
 $9 \times 3 = 27$ ✓
- $35 \div 5 = 7$
 $7 \times 2 = 14$
 $35 + 14 = 49$ ✓
- $25 \div 10 = 2.5$
 $2.5 \times 3 = 7.5$
 $2.5 \times 7 = 17.5$ ✓

g) $25 \times 10 = 250$
 $325 \times 3 = 975$
 $250 + 975 = 1225$

Monday 1st September 2023

Express ratios in simplest form

KR

- 3 red numbers ✓
- 7 ✓
- 1, 2, 3, 4, 5, 6 ✓ $S = 4 + 3$
- 0.3 ✓
- A product is the answer to a multiplication
eg. the product of 4 and 3
= 12

1. Every ratio shows the fraction of green and white squares but 2:1 is the most

Approximate because it is the simplest ratio ✓
How many sweets were there in total?
 $16 \div 4 = 4$
 $4 \times 10 = 40$

2. $20 \div 4 = 5$ ✗
 $5 \times 10 = 50$ 15

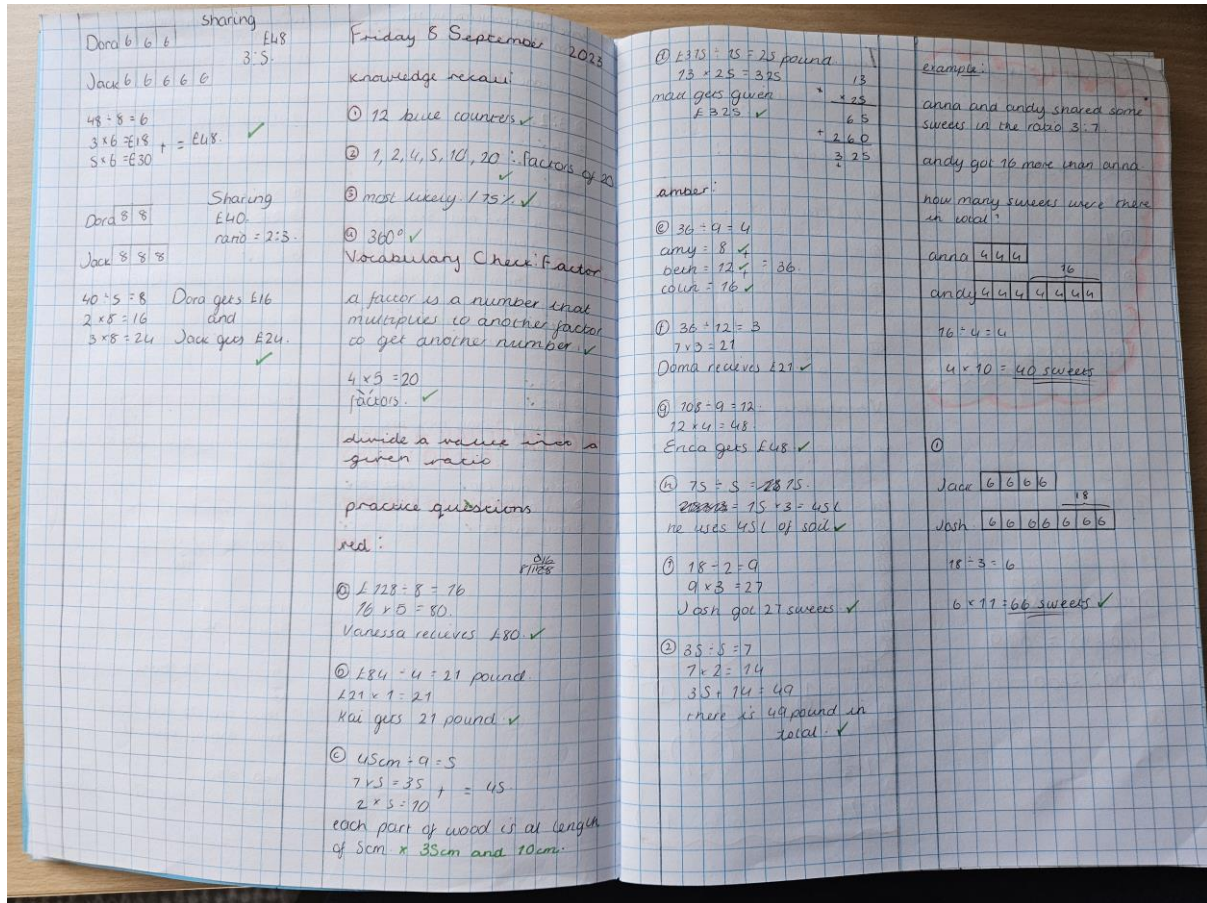
3. $30 \div 6 = 5$
 $5 \times 12 = 60$ ✓

Express ratios in the form n:1

KR

- 1, 6, 1, 4, 2, 1, 4, 2 ✓
- B, D, R ✓
- A = Scalene ✓
B = Equilateral ✓
C = Isosceles ✓
D = Isosceles ✓
- T(A) = x, y and z are equal
T(B) = p and q are equal
- Christopher is wrong because vertically opposite angles are the angles on opposite sides of two crossed straight lines. e.g. $\angle a = \angle c$
- Prime numbers have exactly two factors ✓

Isla M



Jamii-Leigh A



Dora and Jack share £4.8 in the ratio 3:5
How much money do they each receive?

Dora = $\frac{3}{8} \times 4.8$
Jack = $\frac{5}{8} \times 4.8$

calculations -
 $4.8 \div 8 = 0.6$
 $0.6 \times 3 = 1.8$
 $0.6 \times 5 = 3.0$

Friday 8th September 2023
Divide a value into a given ratio.
knowledge recall -

- 1:2 ✓
- 2:0, 1:2, 1:0, 4:5 ✓
- 0.75 very likely ✓ 75%
- 3:6 0 ✓

Factor -
a factor is a number that when multiplied together makes another number.

Questions -

2:3:4
Amy = $\frac{2}{9} \times 36$
Beth = $\frac{3}{9} \times 36$
Cain = $\frac{4}{9} \times 36$

calculations -
 $2 + 3 + 4 = 9$
 $4 + 6 + 8 = 18$
 $6 + 9 + 12 = 27$
 $8 + 12 + 16 = 36$

7:3:2 = 36 £21
Donna = $\frac{7}{12} \times 36$
woman = $\frac{3}{12} \times 36$
woman = $\frac{3}{12} \times 36$

calculations -
 $7 + 3 + 2 = 12$
 $14 + 6 + 4 = 24$
 $21 + 9 + 6 = 36$

5:3
Vanessa = £30
Joe = £48

3:4:2 = 108 £48
Derek = $\frac{3}{9} \times 108$
Erica = $\frac{4}{9} \times 108$
Fred = $\frac{2}{9} \times 108$

calculations -
 $12 + 16 + 8 = 36$
 $24 + 32 + 16 = 72$
 $36 + 48 + 24 = 108$

3:1:1 = 75 47
soil = $\frac{3}{5} \times 75$
manure = $\frac{1}{5} \times 75$
leaf = $\frac{1}{5} \times 75$

calculations -
 $9 + 3 + 3 = 15$
 $18 + 9 + 9 = 36$
 $36 + 18 + 18 = 72$
 $36 + 17 + 17 = 70$

2:3 Jack got 18
Jack = $\frac{2}{5} \times 45$
Josh = $\frac{3}{5} \times 45$
Josh got 12

2:5 Jane got 35
Jack = $\frac{2}{7} \times 49$
Josh = $\frac{5}{7} \times 49$

Anna + Andy shared some sweets in the ratio 3:7
Andy got 16 more than Anna
How many sweets were there in total?

Anna = $\frac{3}{10} \times 100$
Andy = $\frac{7}{10} \times 100$

calculations -
 $16 - 4 = 12$
 $12 \times 10 = 120$

4:7
Jack = $\frac{4}{11} \times 110$
Josh = $\frac{7}{11} \times 110$

calculations -
 $18 - 8 = 10$
 $10 \times 11 = 110$

7:3
Tom = $\frac{7}{10} \times 150$
Tom = $\frac{3}{10} \times 150$

$5 \times 10 = 50$

Monday 11th September 2023
Express Ratios in simplest form.
knowledge recall -

- 5 ✓
- 7 ✓
- 1:2, 3:4, 5:6 ✓
- 0.3 ✓

Product -
an answer to a multiple question

Green: white ✓
2:1
16:20 = 4:5 = 0.8 ✓
7:2 = 1.4 ✓

I think 2:1 is the most efficient because it is the most simplified. However they are all equivalent.
Write this ratio in it's simplest form.

20cm : 5.0mm
 $\div 5$
4cm : 1cm

questions
A: 20p = 5:1
B: 20 : 4p = 5:1
C: 5p : 1p = 5:1

1m : 45cm = 20:9
 $\div 5$
20cm : 9cm
2kg : 3600g = 20:9

Millie G



Divide a value into a given ratio

Friday 8th September

1 12 ✓
2 1 2 3 4 5 10 20 ✓
3 18 ✓
4 360 ✓
5 Factor is a multiple of a larger number eg 10 is a factor of 20 ✓

a 1 8:5 = 16 ✓
2 16:5 = 80 ✓
3 18:3 = 18 ✓

b 8:4 = 2:1 ✓
1 1:2 = 2:1 ✓
2 3:1 = 6:2 ✓

c 1 5:5 = 1 ✓
2 7:5 = 35:25 ✓
3 7:5 = 14:10 ✓

d 7:5 = 14:10 ✓
1 8:2 = 4:1 ✓
2 12:3 = 4:1 ✓
3 18:9 = 2:1 ✓
4 24:6 = 4:1 ✓
5 30:15 = 2:1 ✓

e 3:6 = 1:2 ✓
1 7:2 = 21 ✓
2 7:2 = 21 ✓

f 10:9 = 12 ✓
1 3:12 = 3 ✓
2 7:2 = 21 ✓

H 7:5 = 14 ✓
S = 18:3 = 6 ✓
M = 1:1 = 1 ✓
L = 1:1 = 1 ✓

i 50:10 = 5:1 ✓
60:2 = 30 ✓
L = 60 ✓

j 240:8 = 30 ✓
A = 30:30 = 1 ✓
D = 5:20 = 1:4 ✓
to join 45:15 = 3:1 ✓
L = 3 ✓

1 18:2 = 9 ✓
2 35:7 = 5 ✓
3 25:10 = 5:2 ✓
3 7:5 = 14:10 ✓

Area and array shared same units as the ratio 3:7

Andy got 16 more than Anna

How many sweets were there in total

Anna	16	10
Andy	32	20

Calculations

16 + 10 = 26
26 × 10 = 260

1 18:3 = 6 ✓
10th = 7 × 6 = 42 ✓
2nd = 4 × 6 = 24 ✓
2d + 4 = 66 ✓

2 20:4 = 5 ✓
7th = 7 × 5 = 35 ✓
10th = 3 × 5 = 15 ✓

3 30:6 = 5 ✓
10 + 35 + 15 = 60 ✓

Express ratios in simplest form

1 11/19/23

2 1 5 ✓
2 7 ✓
3 1:6 = 5:1, 2:3, 4:5, 6:3 ✓
4 0:3 ✓
5 product in the end result.

1 2:1 as it is simplified fraction ✓
2 16:40 = 4:5 ✓
3 3:4 1A:4 ✓

a 5:1 ✓
b 20:4 ✓
c 2000:3000 = 500:900 = 50:90 ✓
= 125:225 = 25:45 = 5:9 ✓
d 4:2 ✓
e 30:9 + 10:3 ✓

Express ratios in the form of n:1

1 10:9:22

1 1, 14, 21, 42 ✓
2 6, 8, 12 ✓
3 regular quadrilateral Equilateral, Isosceles ✓
4 All right angles 90 ✓
5 Nations in America they are both on the same side of the line ✓
6 prove means that a number that is only divisible by 1 and itself ✓

1 Take as there is to many different parts eg 20 is not = 10:2 ✓
Write the ratio in form n:1 and m:1

1 5:8 ✓
2 5:8 ✓
3 5:8 ✓
4 5:8 ✓
5 5:8 ✓

1 5 ✓
2 7 ✓
3 1:6 = 5:1, 2:3, 4:5, 6:3 ✓
4 0:3 ✓
5 product in the end result.

1 2:1 as it is simplified fraction ✓
2 16:40 = 4:5 ✓
3 3:4 1A:4 ✓

a 5:1 ✓
b 20:4 ✓
c 2000:3000 = 500:900 = 50:90 ✓
= 125:225 = 25:45 = 5:9 ✓
d 4:2 ✓
e 30:9 + 10:3 ✓

5 ✓
a 1:1 ✓
b 2:1 ✓
c 2:1 ✓
d 0.5:1 ✓
e 1:1 ✓
f 0.25:1 ✓

	1:n	n:1
MEN:WOMEN	1:1.5	0.5:1
WOMEN:MEN	1:0.5	1.5:1

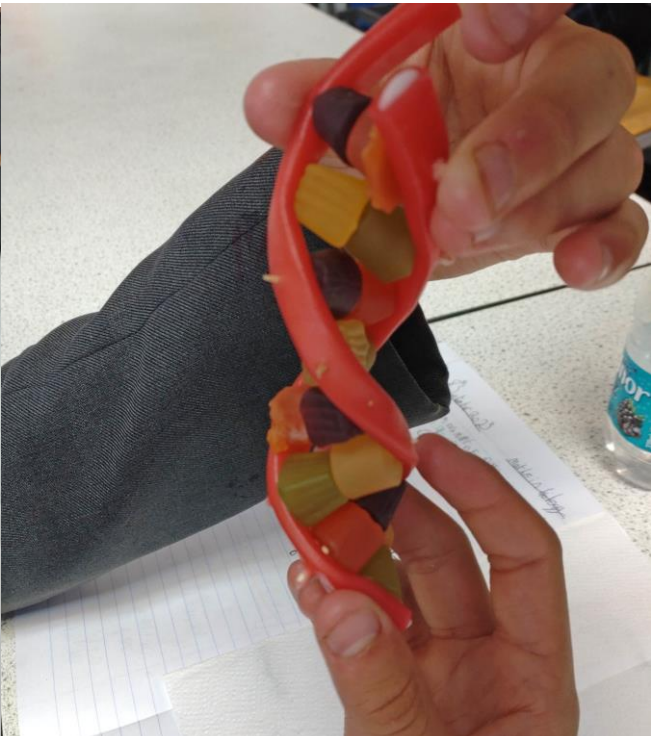
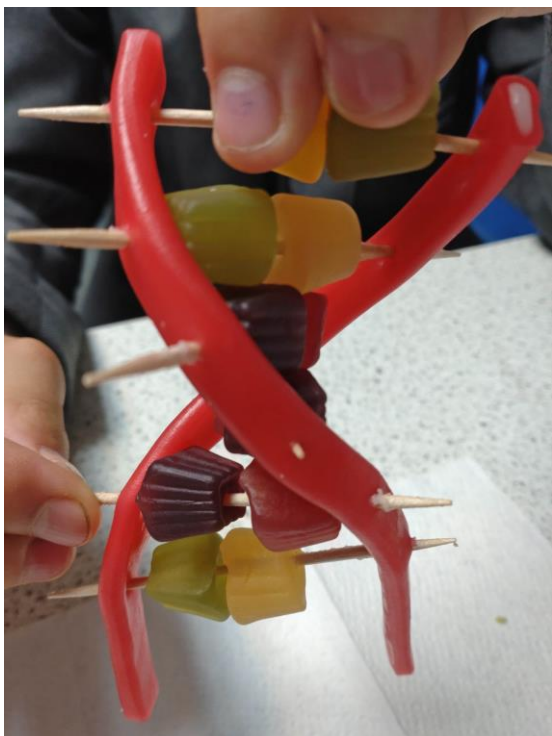
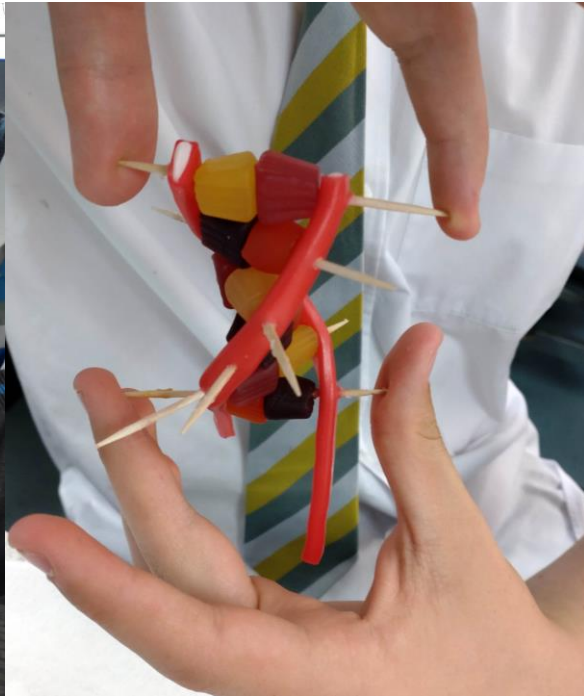
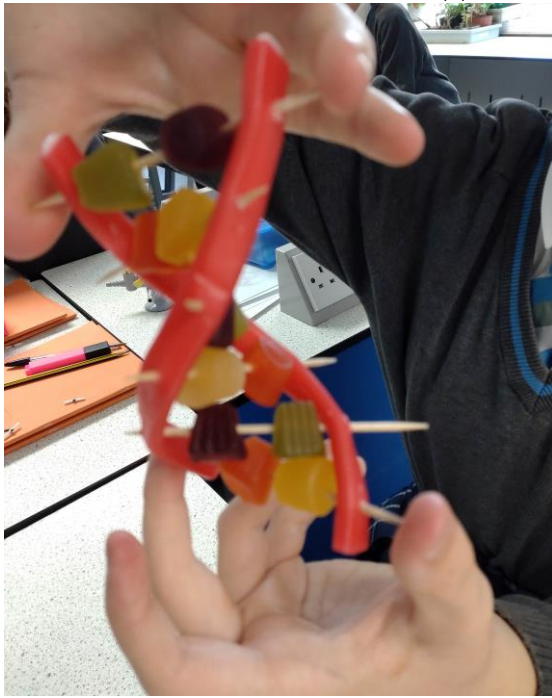
24 = men
36 = women

Ryan W



SCIENCE

Mr Webb's Year 9 Science class have been studying DNA and making models of it to appreciate its 3D structure.

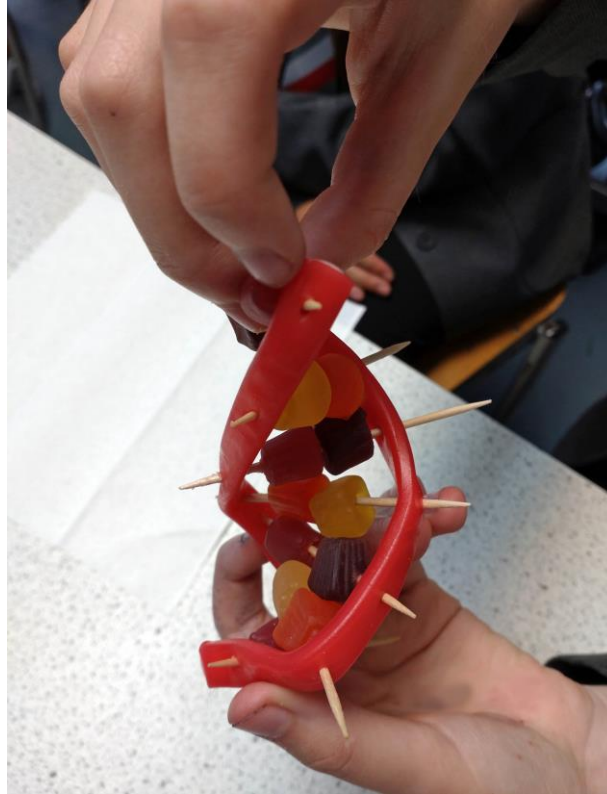




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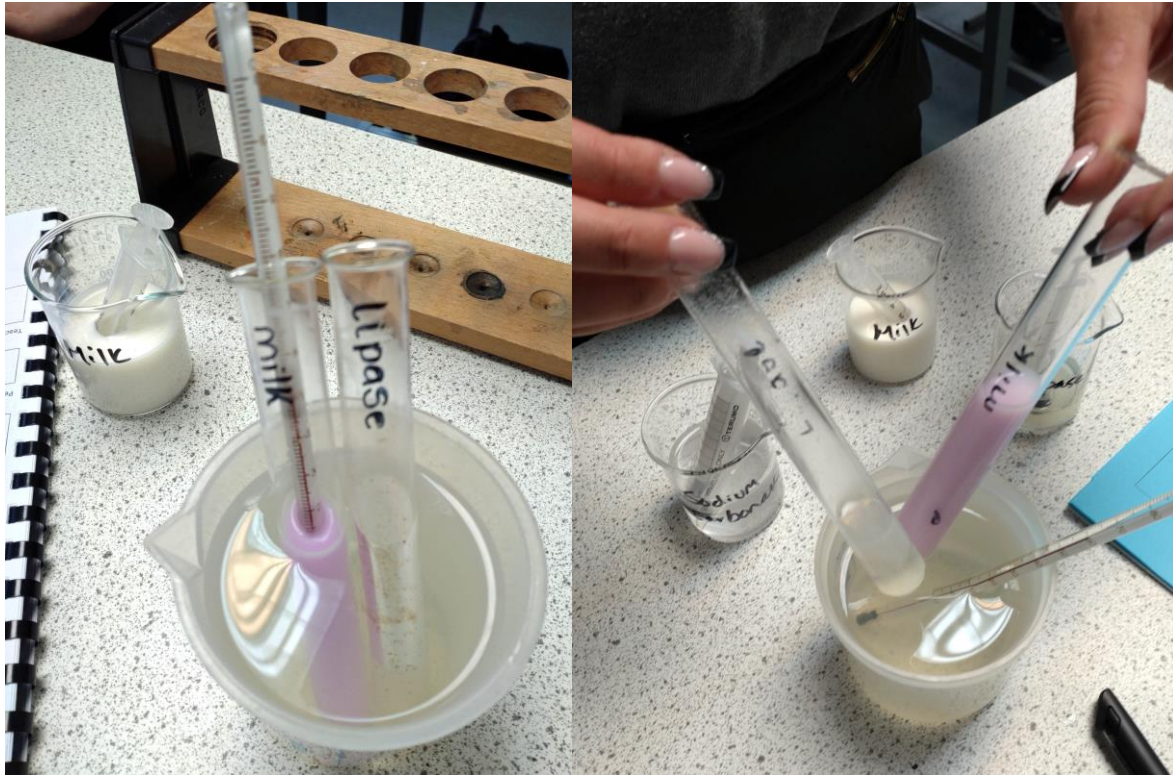
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Richard Brand, Headteacher





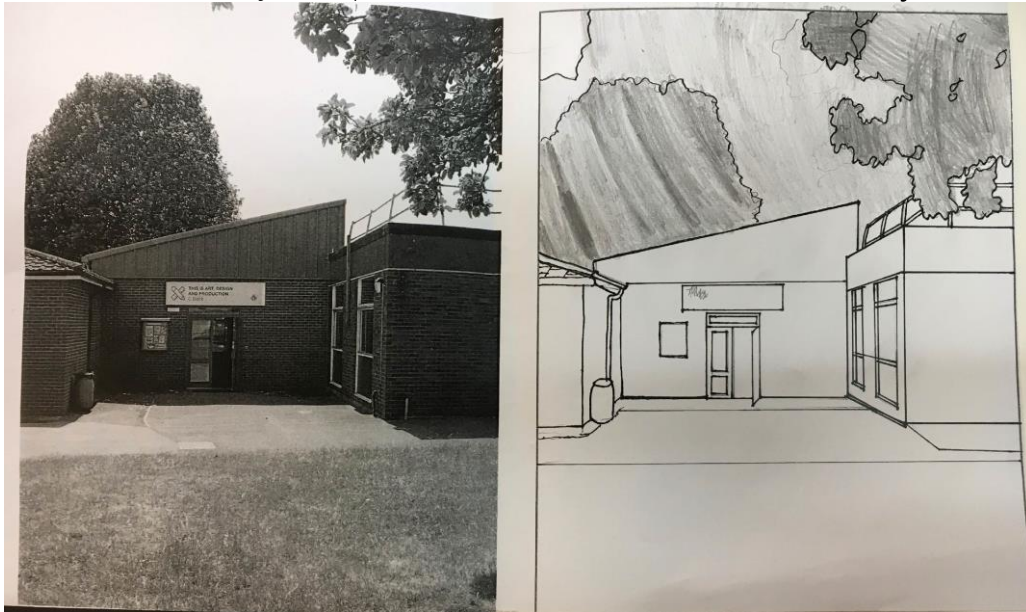
Year 11 Biology students investigating the decay of milk with Mr Webb.



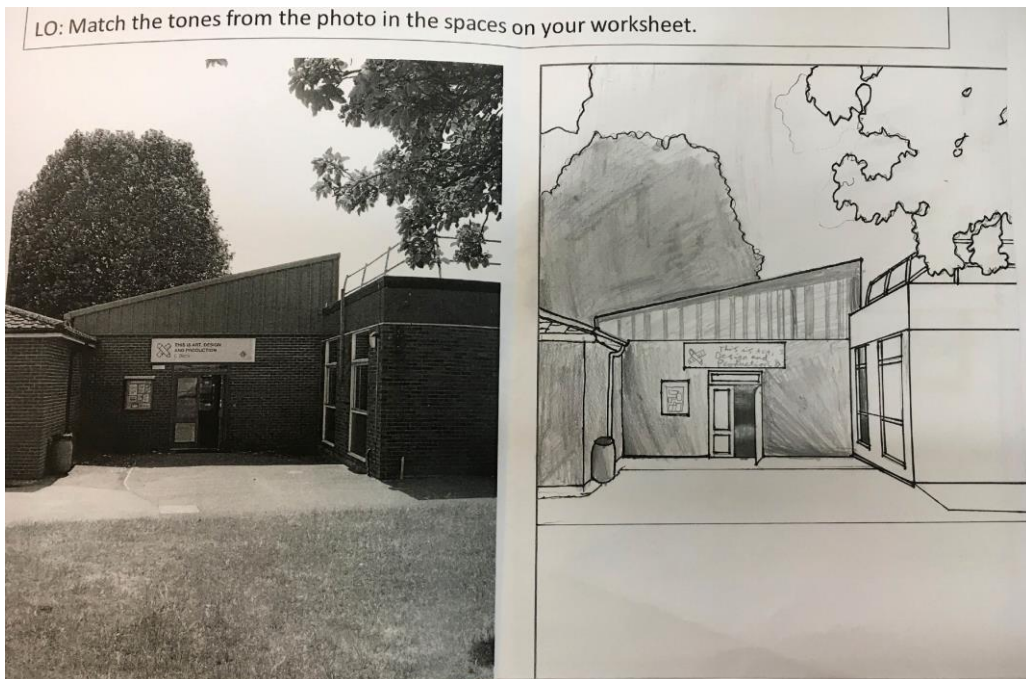


ART

Some lovely examples of work from Year 7 & 8 (Miss Hinchey)



Eleanor T



Lara L

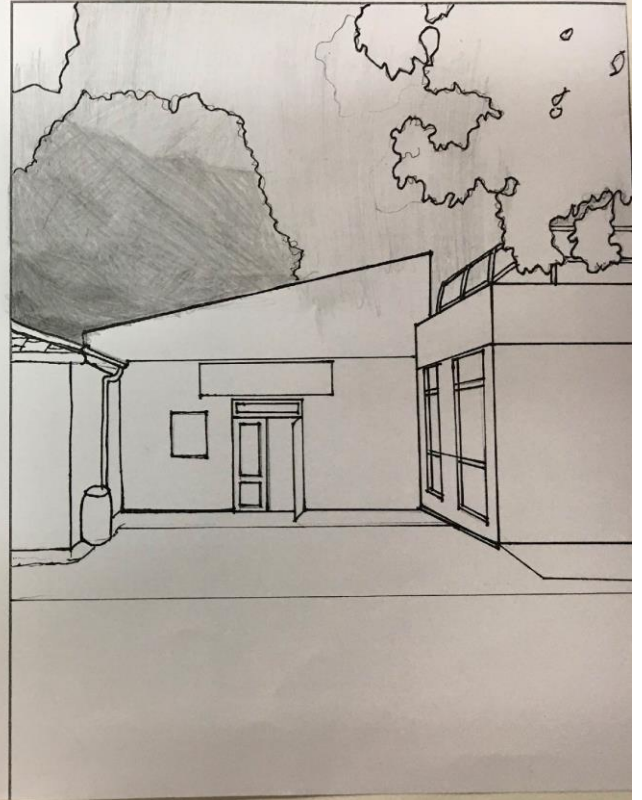


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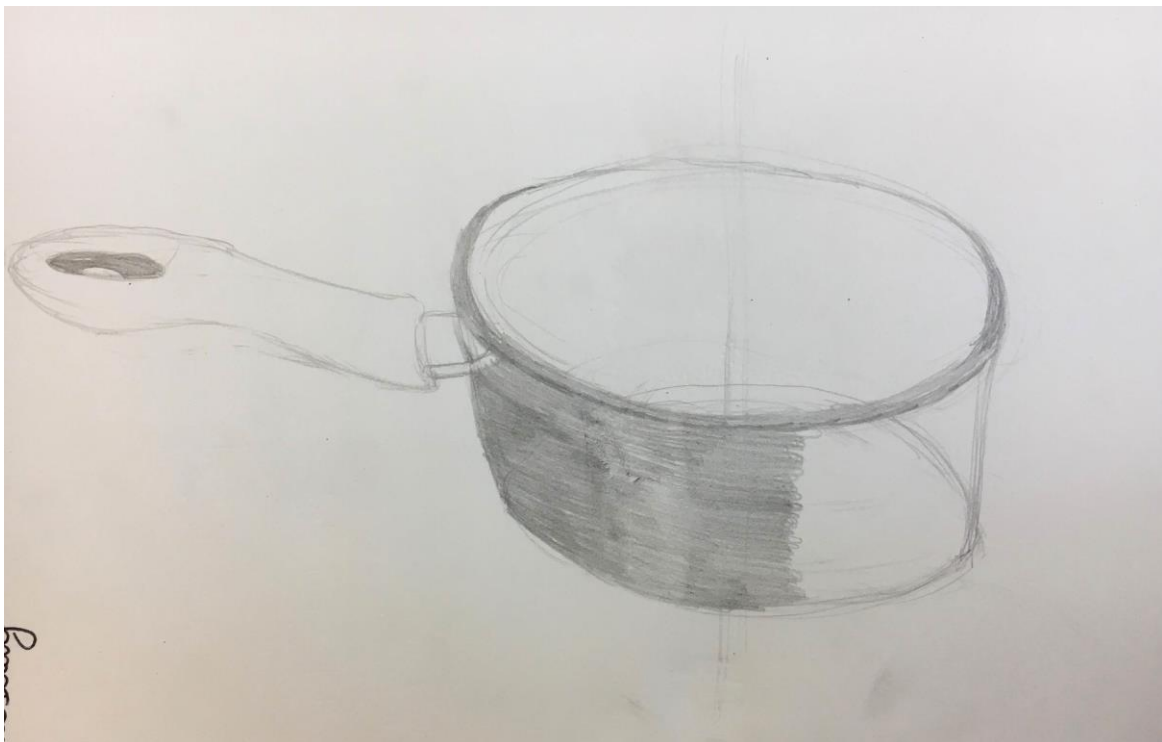
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LO: Match the tones from the photo in the spaces on your worksheet.



Carter G



Rosa F-H



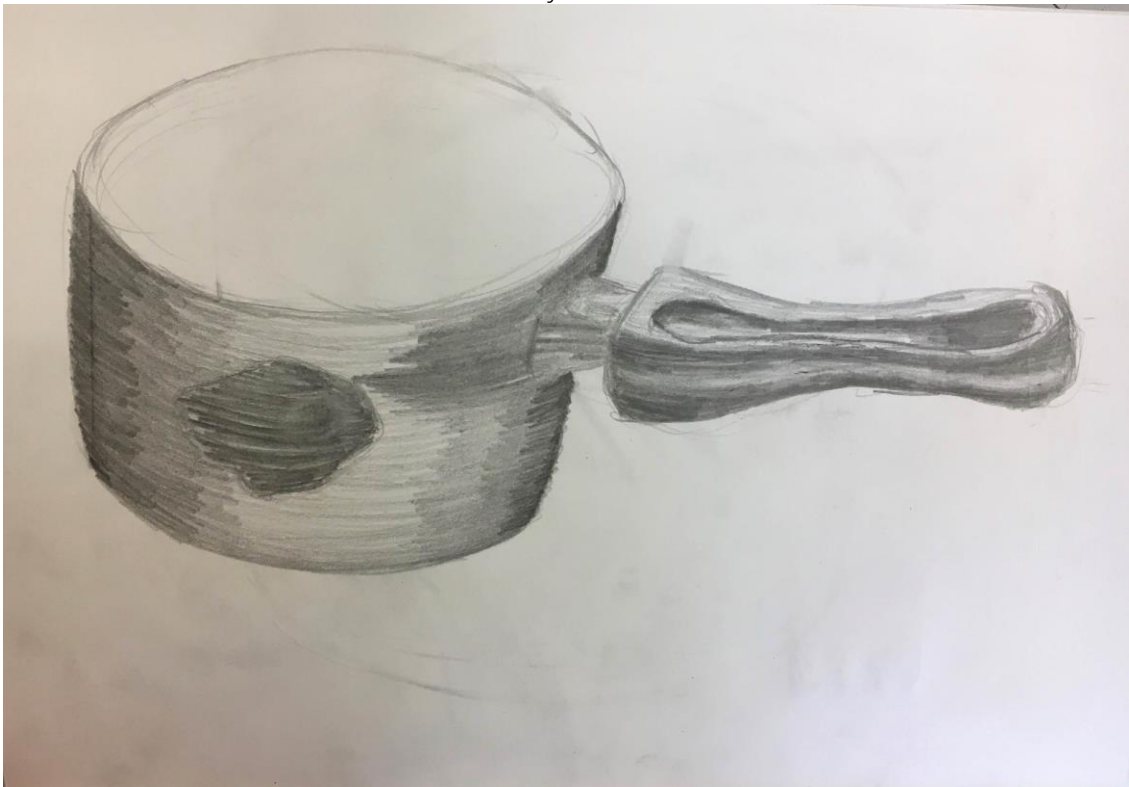
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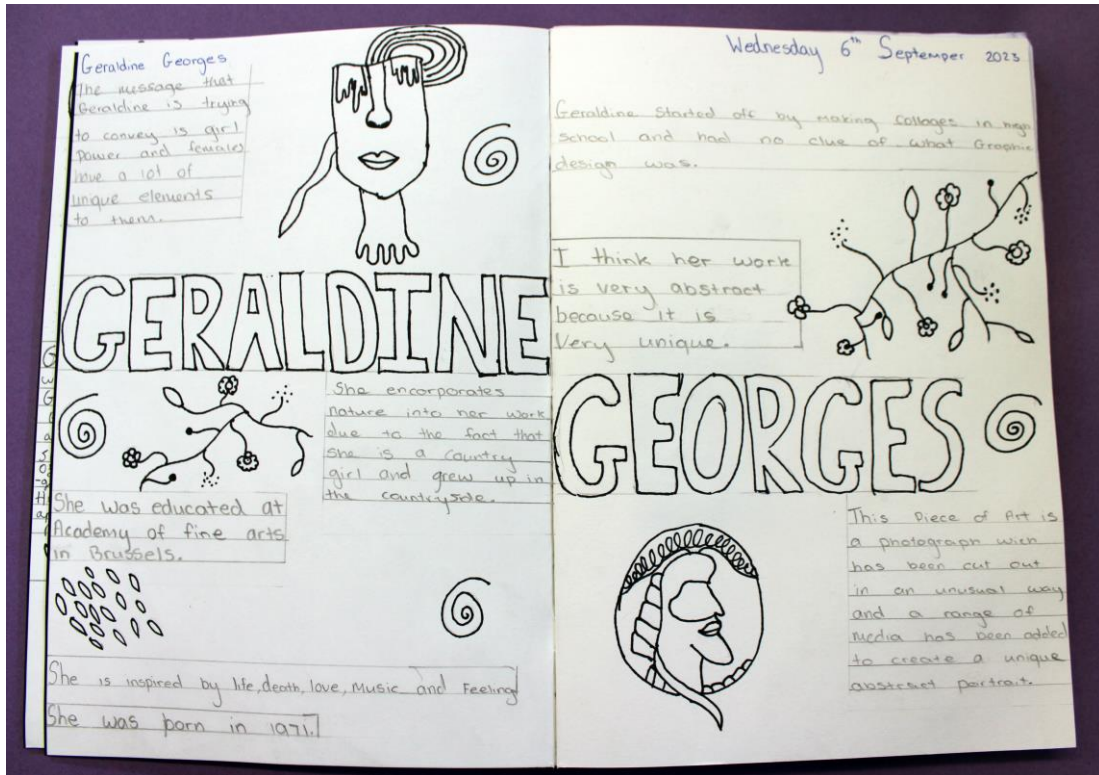
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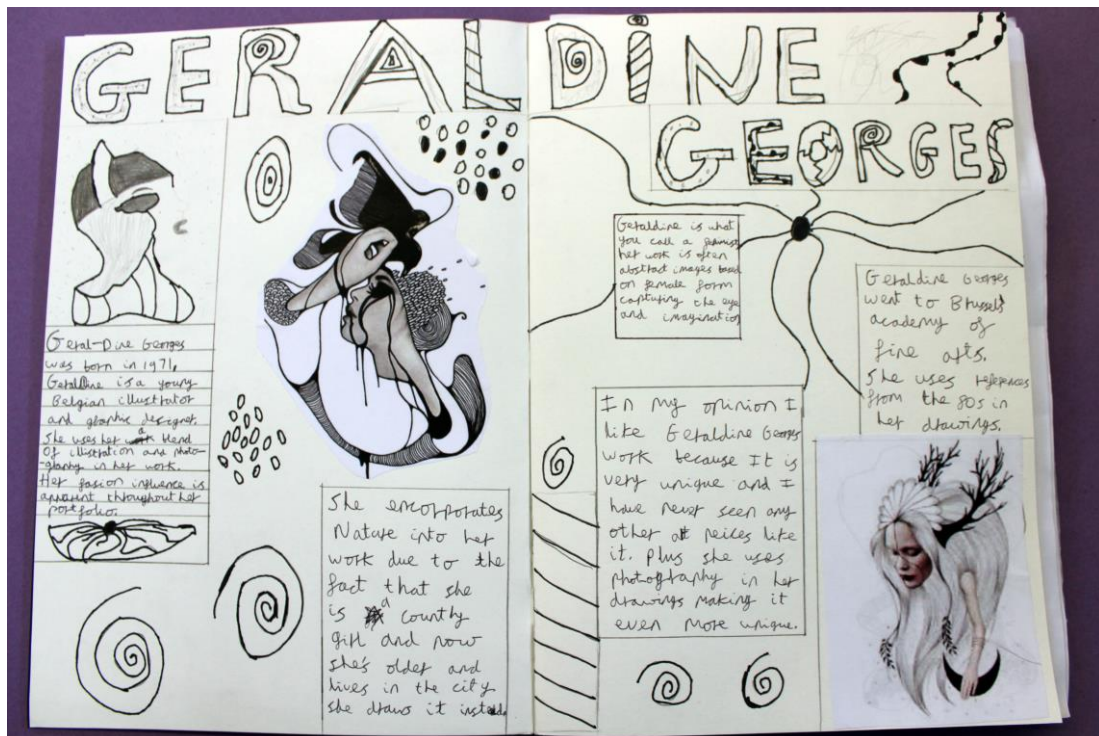
Cyd H



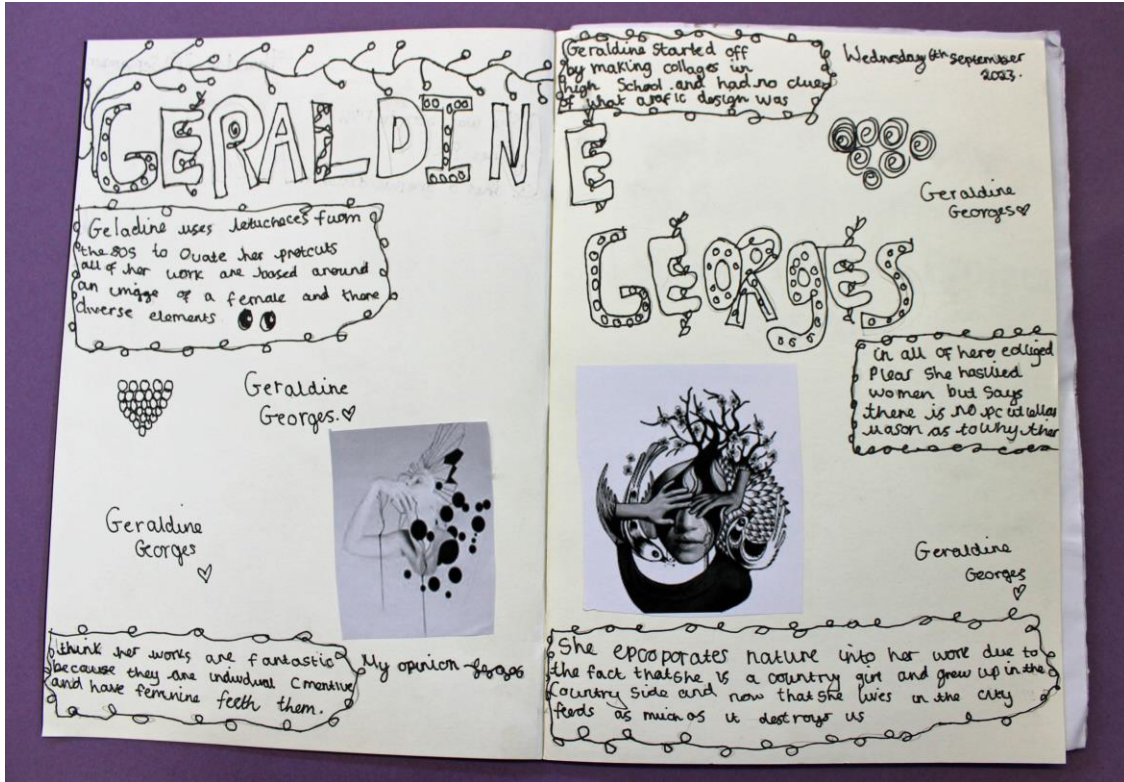
Isla M



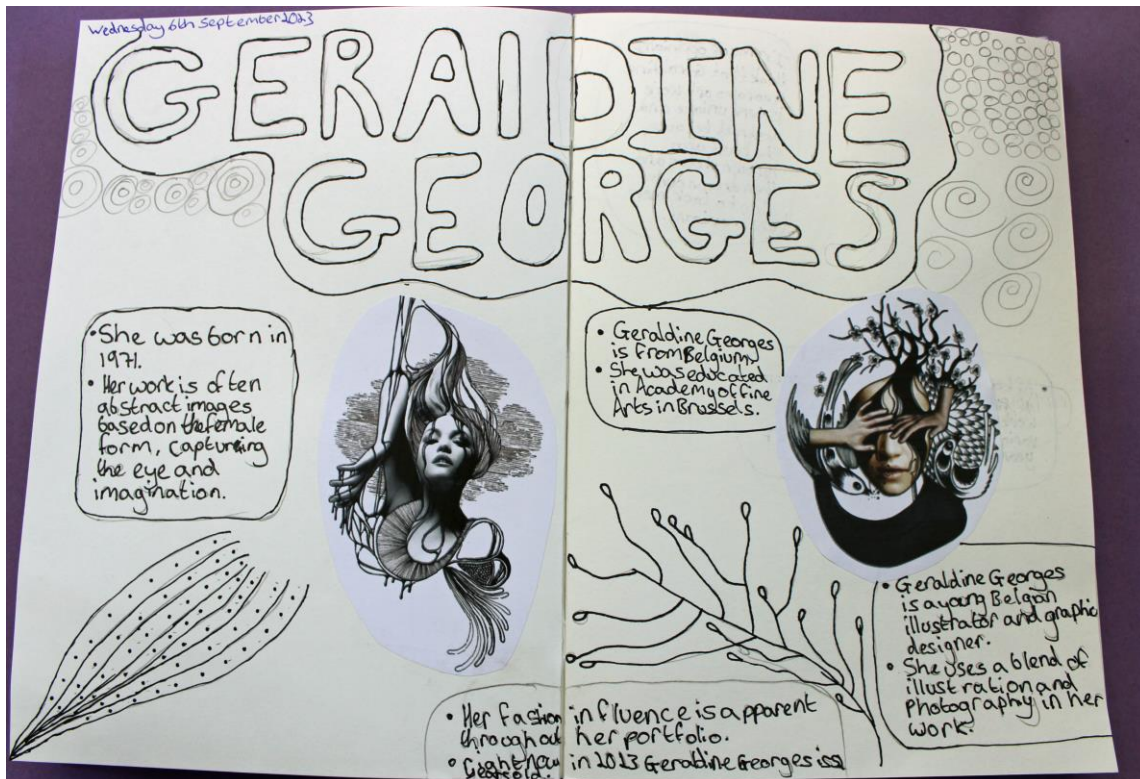
Abbie L



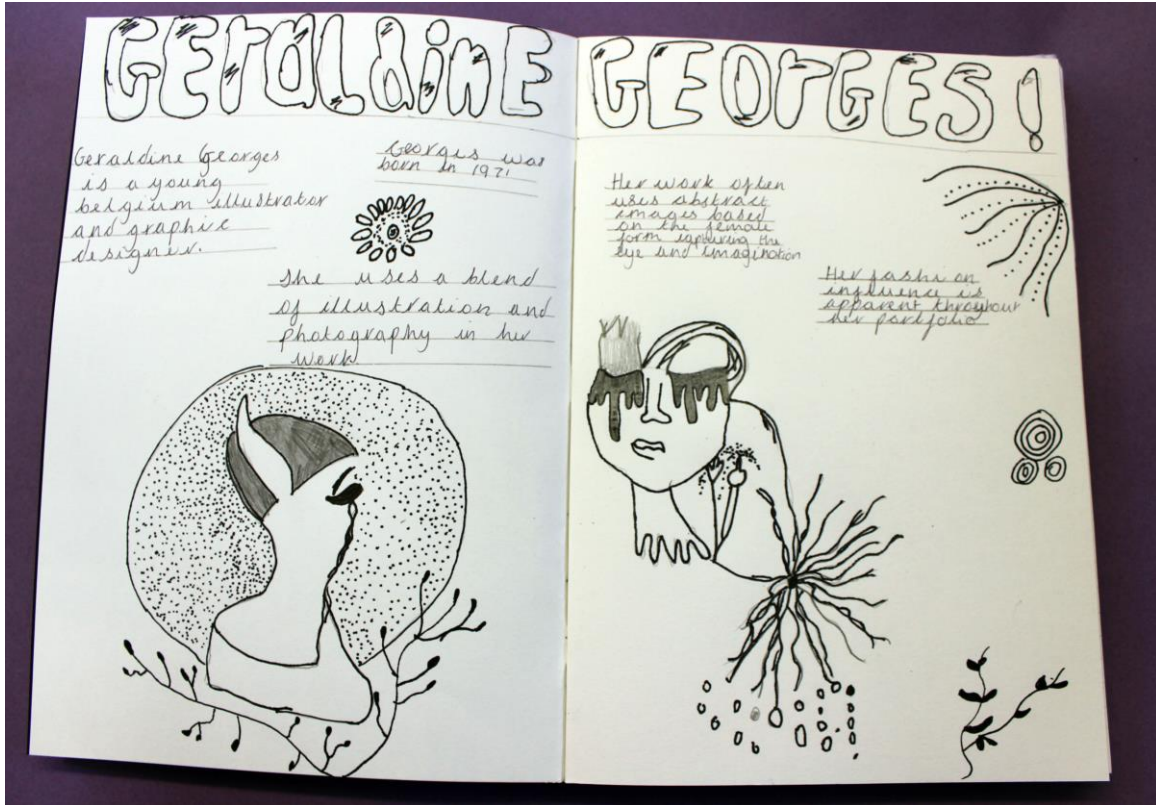
Bradley L



Elisha C



Holly W



Tilly P



CHESS CLUB

We run a wide variety of clubs during the lunchtime and afterschool, it's a great way for students to try out different activities and make new friends! This week, our competitive Year 8 & Year 11 Chess Club members have been battling it out in Ms Meredith's classroom!



Arnav M & Jaraom E



Jaiden W & Cohen P



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OPEN EVENING 2023



Alfie RP & Jaiden W



Amy B & Rhys G



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Ava & Amber S



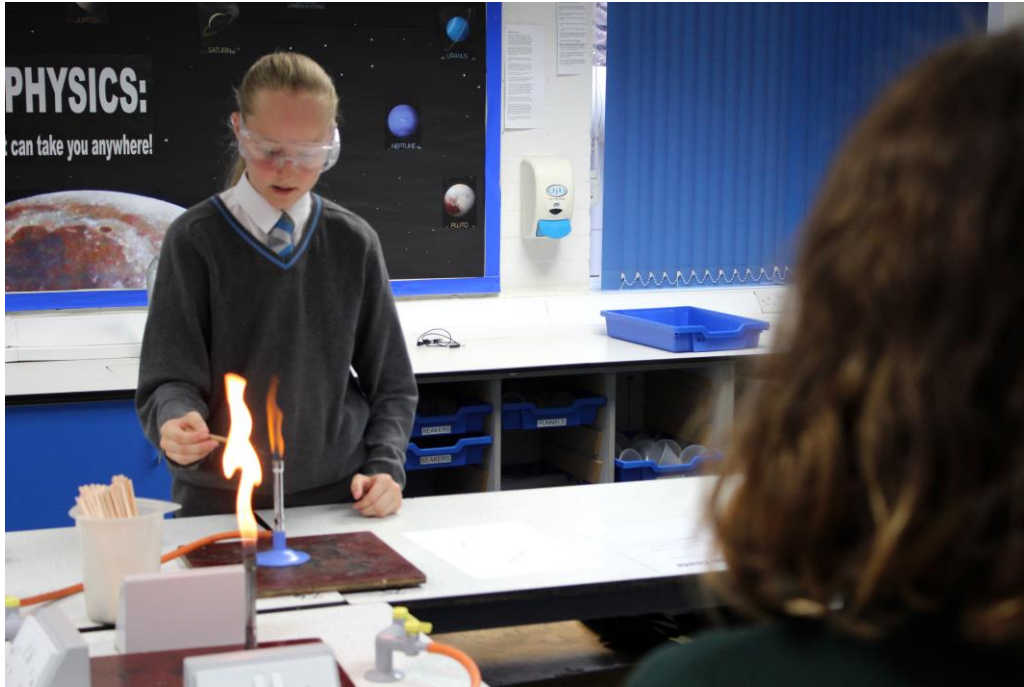
Lars Z & Bailey P



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Lily-Mae J



Oscar H



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Arriving at Open Evening



Headteacher's speech



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**The Forest of Dean is
embracing
community energy!**

**Come join us for an afternoon
of interactive workshops and
talks to learn about what
community energy is and plans
for the Forest.**

**There will be kids' activities,
games, networking and free
food!**

Register on Eventbrite:



**Forest
Community
Energy**



Forest Community Energy

Saturday 23rd September 2.30pm-5pm

Lydney Community Centre
Naas Lane, Lydney, GL15 5AT



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101036418.



**Forest
Community
Energy**



centre for
sustainable
energy

AURORA