

Welcome to the Mathematics department



In Mathematics, students will focus on five key areas. These are numbers, algebra, shape-space-measures, data handling and ratio and proportion. Students learn and practise mathematical skills in lessons and apply them to solve problems.

Students follow curriculum based on Edexcel examination board.



Our results

In GCSE 2019, in Mathematics, we achieved 80% grades 9 to 4 and also 27 grade 9's.

We are extremely proud of our students and all of their hard work. Many students go on to study A level Mathematics and have success in achieving places to study Mathematics at university.

Books and course Materials



MyMaths for Key Stage 3
Student Book 1A



MyMaths for Key Stage 3
Student Book 1B



MyMaths for Key Stage 3
Student Book 1C

Feedback and Marking

- **Self Marking:** Students mark every piece of their work in red pen during lesson time.
- **Live Marking:** Teachers mark with green pen while circulating during the lesson.
- **Next steps Marking:** Detailed marking by teachers in green pen every two weeks. Personalised maths specific target with next step question will be given to students for further improvement.
- **Verbal feedback:** Teachers provide verbal feedback during lesson by using various AFL techniques.



Example of book marking

Week 2 Year 7- Next Steps Date: 7/9/2020
 Option 1
 Maths Specific target: R/A/G
 Add and subtract using mental, written and calculator methods
 Target Question:
 Calculate $58.8\text{ kg} - 39.66\text{ kg}$
 19.14 kg
 Teacher Signed _____

label the y and x axis
 Make sure you are using the correct number
 write the title
 the gaps need to be the same with
 the bar width needs to be the same
 the integers go up at the same amount

1A) ~~10~~ 5 students ✓
 2A) 7B ✓
 3C) 7B ✓
 4D) 818 students ✓

Next Step

Target question

Self marking

Student response to marking

Teacher marking

Homework

Once a week homework is set on
Google Classroom portal on a set day.



The screenshot shows the Google Classroom interface for a class named '7.F/Ma CLASS'. The top navigation bar includes 'Stream', 'Classwork', 'People', and 'Marks'. A 'Create' button is visible, along with links to 'Google Calendar' and 'Class Drive folder'. The main content area displays a list of assignments:

- negative numbers** (1 comment) | Due 22 Sep
Posted 18 Sep (Edited 18 Sep)
Do not print the worksheet
3 Handed in | 22 Assigned
Y7 wk2 - Negative numb... Word
1 class comment
View assignment
- Sequences** (1 comment) | Due 19 Sep
- Place value and number Four operation ...** (6 comments) | Due 8 Sep

Now try this !!!

A little monkey had 60 peaches.

On the **first** day he decided to keep $\frac{3}{4}$ of his peaches.
He gave the rest away. Then he ate one.

On the **second** day he decided to keep $\frac{7}{11}$ of his
peaches.
He gave the rest away. Then he ate one.

On the **third** day he decided to keep $\frac{5}{9}$ of his peaches.
He gave the rest away. Then he ate one.

On the **fourth** day he decided to keep $\frac{2}{7}$ of his peaches.
He gave the rest away. Then he ate one.

On the **fifth** day he decided to keep $\frac{2}{3}$ of his peaches.
He gave the rest away. Then he ate one.

How many did he have left at the end?



Try solving this puzzle!!

Different magic square

In a magic square, the three numbers in each row, in each column, and in each diagonal add up to the same number. Complete this magic square.

| | | |
|----|----|---|
| 13 | | |
| | 10 | |
| 9 | | 7 |



Why not another one!!



Alberta's age

The digits of Alberta's age are interchanged and 1 is added. The answer is half of Alberta's present age. How old is Alberta?

Did you get the magic square?
Here is the solution :

| | | |
|----|----|----|
| 13 | 6 | 11 |
| 8 | 10 | 12 |
| 9 | 14 | 7 |

Could you guess Alberta's age? Here is the solution:

Alberta's age

Since half of her age is an integer, the second digit of Alberta's age must be even. When the digits are swapped, this is less than half of her age, so the second digit must be one of 0, 2 or 4.

Adding 1 to the first digit and doubling must produce the same final digit as the second digit, since this determines the final digit when the digits are swapped, 1 is added and then the result doubled. This leads to the following combinations:

| Second Digit | First Digit |
|--------------|-------------|
| 0 | 4 or 9 |
| 2 | 0 or 5 |
| 4 | 1 or 6 |

The only combination of these that works is 52, so Alberta is 52.