English

This half term, our focus books are 'Boy at the Back of the Class' by Onjali Q. Rauf and 'Earth Shattering Events' by Robin Jacobs.

We will be writing diary entries, setting descriptions and non-chronological reports.

Year 5 Autumn 2 Newsletter

RE

The children will be continuing to explore Islam this half term, exploring the following questions:

- What helps Muslims through the journey of life?
- What are the 5 pillars of Islam?
- How and why do Muslims pray?

Maths

This half term, our maths topics are:

- Fractions
- Multiplication and Division

History

The children are learning about the Anglo-Saxons and the Scots in history. This will build on what they learnt last year, with the first lesson going as far back in history as to when the Romans left Britain.

PSHE

In PSHE this term, we will be learning about health, nutrition and food, aspirations, emotions and safety.

<u>D&T</u>

We are focusing on woodwork in D&T this half term. We will be researching how bridges are designed to be as strong as possible, building our own wooden bridges and evaluating our work.

<u>PE</u>

Our focus sports this term are basketball and gymnastics. Sessions will be led by class teachers on a Monday and a sports coach on a Friday. Please continue to send the children in their PE kits on these days.

Music

Alongside their fortnightly KS2 singing assemblies and clubs such as choir and string orchestra, the children will be learning to play keyboards this half term with Miss Tomlin.

Science

Our focus this half term will be forces. We will be learning about gravity, Galileo Galilee and Isaac Newton.

Autumn 2 Homework Mat

Please complete one task per week and upload a photo or video to Class Dojo.

English

Keep a diary for one week, making sure to include the features we are learning about in our English lessons. No need to upload what you've written to Class Dojo!

Maths

Consider how fractions are used in food in your daily life. This could be when cooking/baking something, or simply cutting up your food/separating food into various portion sizes for different family members. Video yourself discussing what you observed!

Science

Research a scientist that has made discoveries about forces. This could be one of our focus scientists that we will learn about in lessons (Galileo Galilee and Isaac Newton) or someone else! Present your findings in a poster, PowerPoint or any way you like.

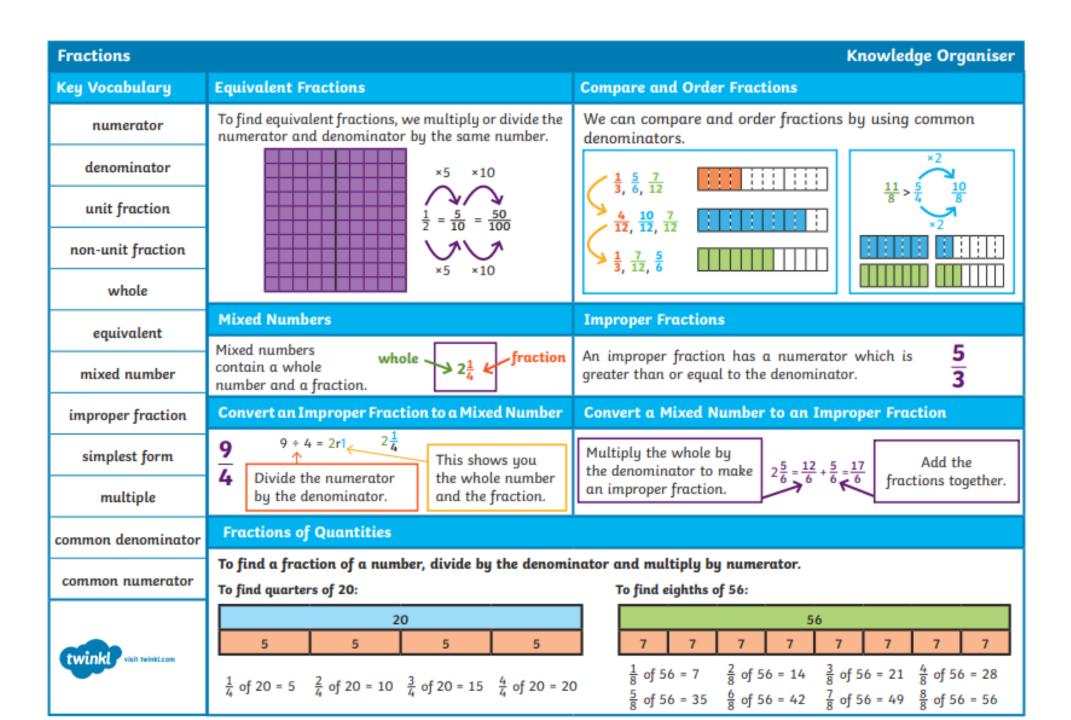
History

Create an Anglo-Saxon artefact.
This could be clothing, armour,
pottery, jewellery, coins or
anything you like! Be creative, and,
if you want to, bring in your
artefact to display in the
classroom.

<u>PE</u>

Practise your sending and receiving skills at home, in the garden or at a club. Remember to scan the room, communicate and use space effectively. You could even try including a double movement!

Upload a video to Class Dojo.

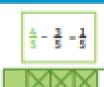


Fractions

Knowledge Organiser

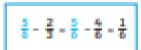
Adding and Subtracting Fractions







$$\frac{1}{4} + \frac{3}{8} - \frac{2}{8} + \frac{3}{8} - \frac{5}{8}$$

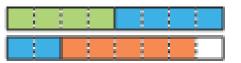




To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.

Add Fractions When the Total is Greater Than 1

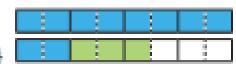




Add Mixed Numbers

$$1\frac{1}{4} + \frac{3}{8} - 1\frac{2}{8} + \frac{3}{8} - 1 + \frac{5}{8} - 1\frac{5}{8}$$

$$1\frac{1}{4} + \frac{3}{8} - \frac{5}{4} + \frac{3}{8} - \frac{10}{8} + \frac{3}{8} - \frac{13}{8} - 1\frac{5}{8}$$



Subtract From a Mixed Number

starting number	find the equivalent fraction	subtract	

Subtract from a Mixed Number -Breaking the Whole

$$2\frac{1}{2} - \frac{3}{8} = 2\frac{2}{8} - \frac{3}{8} = 1\frac{10}{8} - \frac{3}{8} = 1\frac{7}{8}$$



Subtract Two Mixed Numbers

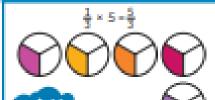




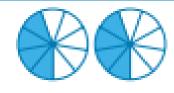
$$2 - 1 - 1$$

$\frac{3}{4} - \frac{5}{8} - \frac{1}{8}$

Multiply Unit Fractions by an Integer



Multiply Non-Unit Fractions by an Integer



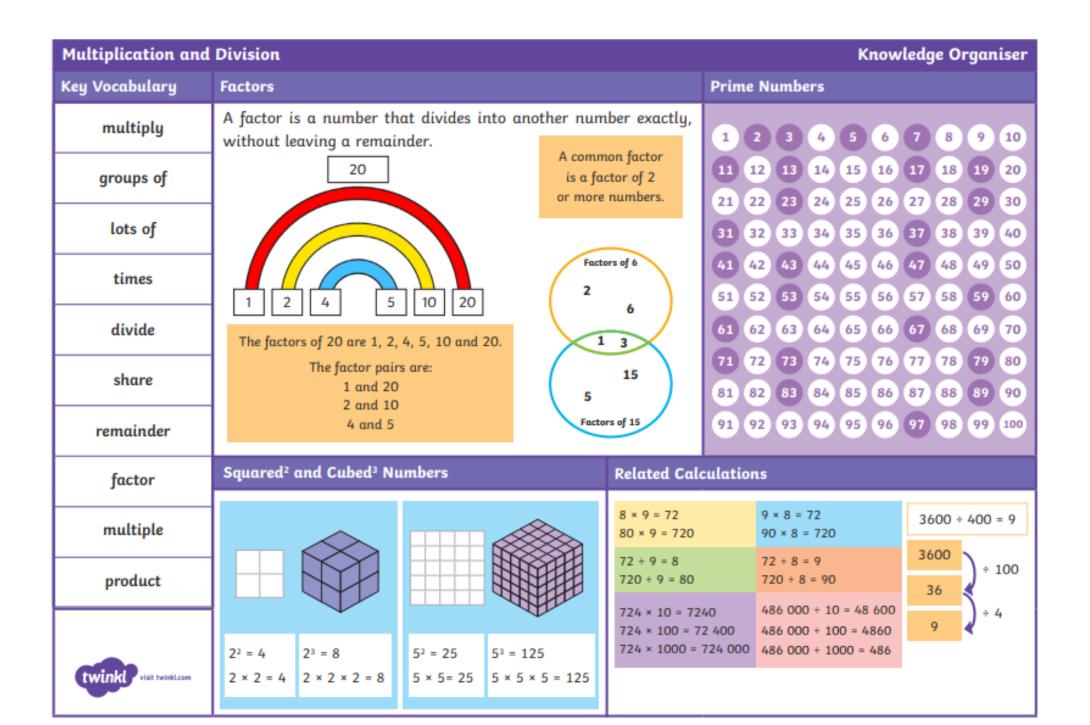
Multiply Mixed Numbers by Integers

Convert to an improper fraction and multiply the numerator by the integer.



Use repeated addition.

$$2\frac{1}{4} \times 2 = 2\frac{1}{4} + 2\frac{1}{4} = 4\frac{2}{4} = 4\frac{1}{2}$$



Multiplication and Division

Knowledge Organiser

Short Multiplication

Long Multiplication

$2543 \times 7 = 17801$

	2	5	4	3
×				7
1	7	8	0	1
-	2	2		

Remember to move any regrouped digits into the next column. After the next multiplication, add the regrouped number to the answer.

$2543 \times 67 = 170381$

		2	5	4	3
	×			6	7
	1	7	8	0	1
1	5 3	2	5	8	0
1	7	0	3	8	1
	1	1			

Before multiplying by the number in the tens column, remember to use zero as a placeholder because the 6 in 67 is 6 tens (60).

Short Division

3 8 4 1 1 5 3 2

15 ÷ 4 = 3 remainder 3

Remember to regroup any remainders and move them into the next column.



28 ÷ 5 = 5 remainder 3

If your calculation has a remainder, remember to record it in the answer using the letter r.

Division

$$136 \div 4 = 34$$

