The Ark Federation
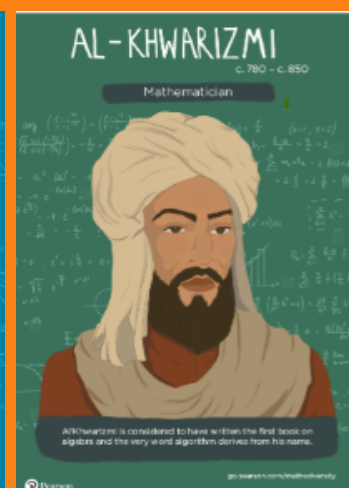
Moorlands Loves Maths

There were too many maths updates for the June newsletter, so we've decided to run a special edition to celebrate maths at Moorlands!
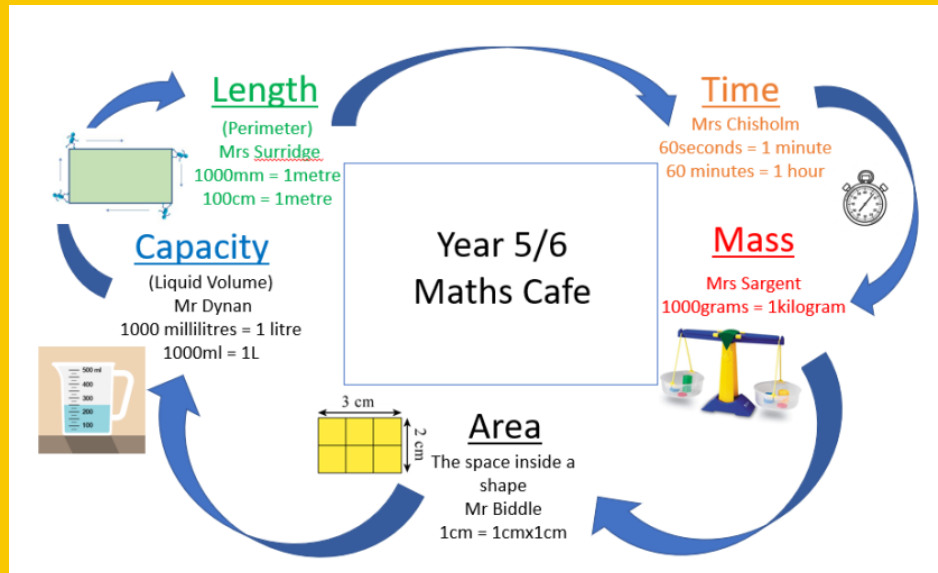
Diverse Mathematicians

At Moorlands we have been increasing our awareness of diversity. This year we have changed our house names to represent diverse mathematicians from around the world. Each mathematician had an assembly dedicated to them to understand who they were. Katherine Johnson, green house, was an African-American female mathematician working for NASA who ensured in 1969 that the first moon landing was successful. Her calculations also made sure the astronauts made it back to earth safely. Al-Kwarizmi, blue house, was a Persian Muslim who lived in 780 AD. Considered the father of algebra, Al-Kwarizmi also created the Hindu-Arabic number system we use today, including the concept of zero. Without him we would still probably be stuck with roman numerals! Alan Turing, yellow house, was an incredible British codebreaker in the second world war, helping to stop German U-Boats from sinking British ships. Alan had to deal with discrimination in his life too, and was imprisoned for being gay when this was still illegal, and also had to deal with the challenges of being autistic. Shakuntala Devi, red house, was an Indian mathematician known as the human computer. From the age of four, she was able to do complex calculations mentally, and her father took her on the road demonstrating her abilities. She became known throughout the world and shared her amazing mental skills in books and on television.

ALAN TURING
1912 - 1954
British Codebreaker

SHAKUNTALA DEVI
1929 - 2013
Human Computer

KATHERINE JOHNSON
1918 - 2020
Mathematician at NASA

AL-KHWARIZMI
c. 780 - c. 850
Mathematician

Maths Learning Cafe

Parents in Year 5/6 recently attended a Maths Café, an opportunity to see maths in action at Moorlands. The morning focused on the measurement strand, and included hands-on activities involving volume and capacity, area, time, mass and perimeter. The children used trundle wheels, measuring cylinders, timers, weighing scales and measuring tape to help them develop their understanding.

TT Rockstars: Times tables are rocking on!

Using Times Tables Rockstars, students have been busy learning their tables both at home and at school. Alongside this, there have been leaderboards, certificates and accolades at school. Rockstar Day was a great day to celebrate our successes so far as a school and both students and staff enjoyed dressing up as their favourite Rockstars. The day included a wide variety of Maths games and activities, along with plenty of times tables questions. At the Rockstar assembly, awards were given out for various competitions such as fastest in the school, most coins in 14 days and biggest improvement since using the program. There was rock music and even a live, one-minute competition featuring the three fastest times tables rock stars in the school! Since September, Moorlands has gone from 18 Rockstars and now has 70 in the school! Battle of the Bands has also been raging this year, with classes competing with each other to answer the most questions. We are thrilled with this progress and look forward to more students joining the ranks before the end of the year.

TT ROCKSTARS HALL OF FAME

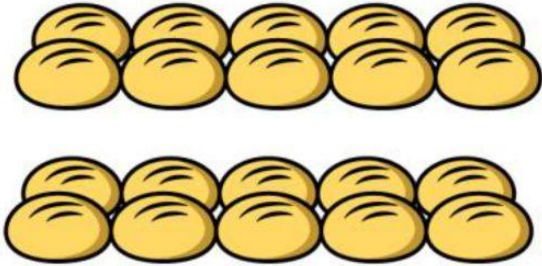| #	Name	Team	Year	Score
1	Isabelle	Deer	Year 5	0.67
2	Eva-Mae	Deer	Year 5	0.84
3	Charlie	Eagles	Year 5	0.87
4	Tianna	Deer	Year 6	0.87
5	Jack	Foxes	Year 3	0.91
6	Riley	Deer	Year 6	0.92
7	Darcy Ella	Eagles	Year 6	0.96
8	Logan	Eagles	Year 6	0.96
9	Alfie	Badgers	Year 4	0.96
10	Lexi	Owls	Year 5	0.99
11	Harry	Hedgehogs	Year 2	1.03
12	Jude	Hedgehogs	Year 2	1.06
13	Fraser	Foxes	Year 4	1.08
14	Holly	Eagles	Year 6	1.12
15	Hugo	Foxes	Year 3	1.15
16	Chase	Owls	Year 5	1.21
17	Esmae	Owls	Year 5	1.25
18	Hannah	Deer	Year 6	1.26
19	Jacob	Foxes	Year 3	1.26
20	Billy	Deer	Year 6	1.31
21	Olive	Deer	Year 6	1.37
22	Xavier	Owls	Year 6	1.39
23	Toby	Otters	Year 4	1.4
24	Brooke	Squirrels	Year 2	1.42
25	Reece	Eagles	Year 6	1.42
26	Ella	Badgers	Year 3	1.45
27	Max	Deer	Year 6	1.46
28	Faye	Owls	Year 5	1.47
29	Gracie	Otters	Year 3	1.57
30	Alfie	Badgers	Year 4	1.61
31	Noah	Eagles	Year 6	1.7
32	Noah	Deer	Year 5	1.76
33	Amelie	Deer	Year 6	1.78
34	Alfred	Otters	Year 4	1.86
35	Harry	Badgers	Year 4	1.9
36	Jude	Deer	Year 6	1.92
37	Ellie-Rose	Owls	Year 6	1.93
38	Samuel	Otters	Year 4	1.93
39	Eva	Owls	Year 5	1.94
40	Aj	Eagles	Year 5	1.96
41	Ashley	Badgers	Year 4	1.98
42	Dylan	Owls	Year 6	2.05
43	Charlie	Owls	Year 6	2.09
44	Freddy	Eagles	Year 6	2.09
45	Lily-Mai	Eagles	Year 6	2.11
46	Eddie	Deer	Year 5	2.14
47	Marley	Foxes	Year 3	2.17
48	Scarlett	Deer	Year 6	2.21
49	Isla-Rose	Badgers	Year 4	2.24
50	Daisy	Eagles	Year 5	2.27
51	Jenson	Eagles	Year 5	2.28
52	Isabella	Foxes	Year 4	2.28
53	Lily-Rae	Deer	Year 6	6.82
54	Matilda	Rabbits	Year 1	2.36
55	Roman	Foxes	Year 4	2.44
56	Brandon	Eagles	Year 5	2.51
57	Ethan	Eagles	Year 5	2.55
58	Phoebe	Deer	Year 5	2.59
59	Leo	Otters	Year 4	2.61
60	Charlie	Deer	Year 6	2.65
61	Isaac	Deer	Year 6	2.71
62	Ocean	Eagles	Year 6	2.75
63	Breckin	Deer	Year 5	2.79
64	Isla-Rose	Foxes	Year 4	2.8
65	Louie	Owls	Year 6	2.86
66	Joshua	Otters	Year 4	2.87
67	Evelyn	Eagles	Year 6	2.91
68	Millie	Owls	Year 5	2.94
69	Ray	Eagles	Year 6	2.97
70	Izabella	Deer	Year 6	3

TIMES TABLES ROCK STARS

Problems Page

Can you solve maths problems? Some are tricky to solve but there is something here for everyone to try. Work with a family member to help you.

Sam has these bread rolls to sell.

He sells 14 of the bread rolls.

How many does he have left?

Emma has 3 tins of paint.

Each tin contains 5 litres of paint.

Emma uses 7 litres of paint.

How many litres of paint does Emma have left?

Usman saves 10p and 50p coins in his money box.

He has saved £12.70

32 of the coins in the money box are 10p coins.

How many 50p coins are in the box?

The table shows the number of loaves of bread sold in a shop each week in February.

Week	Number of loaves sold
1st Week	480
2nd Week	400
3rd Week	70
4th Week	250

Which week did the shop sell $\frac{1}{3}$ of the total number of loaves of bread sold in February?