Holy Trinity Maths Challenge Award

and the Table Mountain Challenge

Deep knowledge and rapid recall of times tables is critical to the fluency and understanding of every aspect of maths learning. In an effort to ensure all children master and embed their times tables knowledge we have relaunched the Holy Trinity Maths challenge Award and introduced a parallel challenge: Can you climb Table Mountain?

Holy Trinity Maths challenge award.

Throughout your child's time at Holy Trinity they will work through the maths challenge award system, completing their bronze, silver, platinum, gold award and working towards the ultimate Maths challenge award. Our expectation is that every child will achieve their Maths Challenge award by the end of Year 6. A copy of the requirements for each level of the award are attached. To achieve each award the children need to know each of the times tables for that award as multiplication facts and as their inverse division facts in random order.

Can you climb Table Mountain?

As a stimulus for learning the times tables and to reward the learning of the individual times tables leading up to an award, each classroom has a Table Mountain challenge.

The aim for the children will be to move their cable car up the mountain as they learn their times tables. The tables are in the order of the maths awards and the children will be provided with lots of opportunities to practice in class and be tested regularly as well as learning and understanding multiplication and division as mathematical concepts.
In addition the children are encouraged to take responsibility for their own learning and if they think they are ready, can ask a member of staff to test them at any time. All the children have special folders where their progress and practice is recorded. This folder will travel with the children through the school.
When the children begin a new school year, all cable cars will return to the bottom of table mountain and the children will work back up again as a way of reviewing, embedding and

consolidating their learning of the times tables. As the children become more proficient in the rapid recall of their times tables the movement back up Table Mountain will happen very quickly. Although cable cars will return to the base of Table Mountain for review purposes the children do not lose nor do they have to be retested for any Maths awards they have already received. They will continue to work towards their next award as well as consolidating prior times table learning.

How can you help at home?

Practice, practice, practice!

- Play on the Mathletics website - the children have all been given their Mathletics logins. www.**mathletics**.co.uk/

- http://resources.woodlands-junior.kent.sch.uk/maths/timestable/interactive.htm

- Early Learning Centre have CD's of times table chants and packs of times table snap/match cards

Attached is a printable multiplication square and times table poster.

Make all practice fun and enjoyable!

If you have any questions about the Maths Award or Table Mountain please do not hesitate to come and have a chat.

Lee Reynolds

Maths subject leader

l.reynolds@holytrinity.richmond.sch.uk

			Date achieved	Tested by
Bronze certificate	awarded for knowing mixed up multiplication and division facts randomly by heart.	1 2 5 10		
Silver certificate	awarded for knowing mixed up multiplication and division facts randomly by heart of the new times tables and review of the previous.	3 4 11		
Gold certificate	awarded for knowing mixed up multiplication and division facts randomly by heart of the new times tables and review of all the previous.	6 7 9		
Platinum certificate	awarded for knowing mixed up multiplication and division facts randomly by heart of the new times tables and review of all the previous.	8 12 Square numbers Square roots Prime numbers		
Maths challenge award	awarded for knowing randomly by heart • mixed up times tables • mixed up division facts • mixed up square numbers and square roots • prime numbers • divisibility rules	All multiplication and division facts to 12 x 12 square numbers and square roots Prime numbers Divisibility test		

Holy Trinity Maths Challenge Award

Multiplication Square

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

2

1 x 2 = 2
2 x 2 = 4
3 x 2 = 6
4 x 2 = 8
5 x 2 = 10
6 x 2 = 12
7 x 2 = 14
8 x 2 = 16
9 x 2 = 18
10 x 2 = 20
11 x 2 = 22
12 x 2 = 24

3

1 x 3 = 3
2 x 3 = 6
3 x 3 = 9
4 x 3 = 12
5 x 3 = 15
6 x 3 = 18
7 x 3 = 21
8 x 3 = 24
9 x 3 = 27
10 x 3 = 30
11 x 3 = 33
12 x 3 = 36

4

1 x 4 = 4
2 x 4 = 8
3 x 4 = 12
4 x 4 = 16
5 x 4 = 20
6 x 4 = 24
7 x 4 = 28
8 x 4 = 32
9 x 4 = 36
10 x 4 = 40
11 x 4 = 44
12 x 4 = 48

5

1 x 5 = 5
2 x 5 = 10
3 x 5 = 15
4 x 5 = 20
5 x 5 = 25
6 x 5 = 30
7 x 5 = 35
8 x 5 = 40
9 x 5 = 45
10 x 5 = 50
11 x 5 = 55
12 x 5 = 60

6

1 x 6 = 6
2 x 6 = 12
3 x 6 = 18
4 x 6 = 24
5 x 6 = 30
6 x 6 = 36
7 x 6 = 42
8 x 6 = 48
9 x 6 = 54
10 x 6 = 60
11 x 6 = 66
12 x 6 = 72

7

1 x 7 = 7
2 x 7 = 14
3 x 7 = 21
4 x 7 = 28
5 x 7 = 35
6 x 7 = 42
7 x 7 = 49
8 x 7 = 56
9 x 7 = 63
10 x 7 = 70
11 x 7 = 77
12 x 7 = 84

8

1 x 8 = 8
2 x 8 = 16
3 x 8 = 24
4 x 8 = 32
5 x 8 = 40
6 x 8 = 48
7 x 8 = 56
8 x 8 = 64
9 x 8 = 72
10 x 8 = 80
11 x 8 = 88
12 x 8 = 96

9

1 x 9 = 9
2 x 9 = 18
3 x 9 = 27
4 x 9 = 36
5 x 9 = 45
6 x 9 = 54
7 x 9 = 63
8 x 9 = 72
9 x 9 = 81
10 x 9 = 90
11 x 9 = 99
12 x 9 = 108

10

1 x 10 = 10
2 x 10 = 20
3 x 10 = 30
4 x 10 = 40
5 x 10 = 50
6 x 10 = 60
7 x 10 = 70
8 x 10 = 80
9 x 10 = 90
10 x 10 = 100
11 x 10 = 110
12 x 10 = 120

11

1 x 11 = 11
2 x 11 = 22
3 x 11 = 33
4 x 11 = 44
5 x 11 = 55
6 x 11 = 66
7 x 11 = 77
8 x 11 = 88
9 x 11 = 99
10 x 11 = 110
11 x 11 = 121
12 x 11 = 132

12

1 x 12 = 12
2 x 12 = 24
3 x 12 = 36
4 x 12 = 48
5 x 12 = 60
6 x 12 = 72
7 x 12 = 84
8 x 12 = 96
9 x 12 = 108
10 x 12 = 120
11 x 12 = 132
12 x 12 = 144