Number bond and Times Table Awards

Number Bonds
- Bronze number bond award (Parent/Carer initials)
- Silver number bond award (Parent/Carer initials)
- Gold number bond award (Teacher/TA initials)

Number bond badge
- 20 mixed number bond questions, including addition, subtraction and missing number facts.

X tables Colour awards
- Bronze times table (Parent/Carer initials)
- Silver times table award per times tables (Parent/Carer initials)
- Gold times table award per times tables (Teacher/TA initials)

X Tables Badge
- 20 mixed times table questions, including division facts.

X tables Emerald
- The Emerald Award consists of the application of times tables facts to; large numbers, fractions of numbers, missing number calculations, area, perimeter, square numbers and 2 and 3 step problems. (This used to be the Gold Award)

X tables Diamond
- The Diamond Award consists of a project, completed at home, where children independently complete a greater depth task that will use their problem solving skills together with their reasoning to produce a journal style project.

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- Gold number bond award (Teacher/TA initials)

Number bond badge
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4 + 0 = 4	6 + 0 = 6	7 + 0 = 7	11 + 0 = 11	12 + 0 = 12	13 + 0 = 13
3 + 1 = 4	5 + 1 = 6	6 + 1 = 7	10 + 1 = 11	11 + 1 = 12	12 + 1 = 13
2 + 2 = 4	4 + 2 = 6	5 + 2 = 7	9 + 2 = 11	10 + 2 = 12	11 + 2 = 13
1 + 3 = 4	3 + 3 = 6	4 + 3 = 7	8 + 3 = 11	9 + 3 = 12	10 + 3 = 13
0 + 4 = 4	2 + 4 = 6	3 + 4 = 7	7 + 4 = 11	8 + 4 = 12	9 + 4 = 13
	1 + 5 = 6	2 + 5 = 7	6 + 5 = 11	7 + 5 = 12	8 + 5 = 13
	0 + 6 = 6	1 + 6 = 7	5 + 6 = 11	6 + 6 = 12	7 + 6 = 13
5 + 0 = 5		0 + 7 = 7	4 + 7 = 11	5 + 7 = 12	6 + 7 = 13
4 + 1 = 5			3 + 8 = 11	4 + 8 = 12	5 + 8 = 13
3 + 2 = 5			2 + 9 = 11	3 + 9 = 12	4 + 9 = 13
2 + 3 = 5			1 + 10 = 11	2 + 10 = 12	3 + 10 = 13
1 + 4 = 5			0 + 11 = 11	1 + 11 = 12	2 + 11 = 13
0 + 5 = 5				0 + 12 = 12	1 + 12 = 13
					0 + 13 = 13

8 + 0 = 8	9 + 0 = 9	10 + 0 = 10	14 + 0 = 14	15 + 0 = 15	20 + 0 = 20
7 + 1 = 8	8 + 1 = 9	9 + 1 = 10	13 + 1 = 14	14 + 1 = 15	19 + 1 = 20
6 + 2 = 8	7 + 2 = 9	8 + 2 = 10	12 + 2 = 14	13 + 2 = 15	18 + 2 = 20
5 + 3 = 8	6 + 3 = 9	7 + 3 = 10	11 + 3 = 14	12 + 3 = 15	17 + 3 = 20
4 + 4 = 8	5 + 4 = 9	6 + 4 = 10	10 + 4 = 14	11 + 4 = 15	16 + 4 = 20
3 + 5 = 8	4 + 5 = 9	5 + 5 = 10	9 + 5 = 14	10 + 5 = 15	15 + 5 = 20
2 + 6 = 8	3 + 6 = 9	4 + 6 = 10	8 + 6 = 14	9 + 6 = 15	14 + 6 = 20
1 + 7 = 8	2 + 7 = 9	3 + 7 = 10	7 + 7 = 14	8 + 7 = 15	13 + 7 = 20
0 + 8 = 0	1 + 8 = 9	2 + 8 = 10	6 + 8 = 14	7 + 8 = 15	12 + 8 = 20
	0 + 9 = 9	1 + 9 = 10	5 + 9 = 14	6 + 9 = 15	11 + 9 = 20
		0 + 10 = 10	4 + 10 = 14	5 + 10 = 15	10 + 10 = 20
			3 + 11 = 14	4 + 11 = 15	Now reverse the numbers
			2 + 12 = 14	3 + 12 = 15	
			1 + 13 = 14	2 + 13 = 15	
			0 + 14 = 14	1 + 14 = 15	
				0 + 15 = 15	

Ⓑ Bronze Award Ⓑ

To achieve your bronze award for each number bond, you must be able to recite the bond in order.

E.g. 4 + 0 = 4 ; 3 + 1 = 4 ; 2 + 2 = 4 and so on.

When you've shown your Parent/Carer that you can do this, they may sign the bronze award.

Ⓢ Silver Award Ⓢ

To achieve your silver award, you must be able to give the answer of a particular bond in a random order.

E.g. 4 + 0 = ◯ ; 3 + ◯ = 4 ; ◯ + 3 = 4 and so on.

When you've shown your Parent/Carer that you can do this, they may sign the silver award.
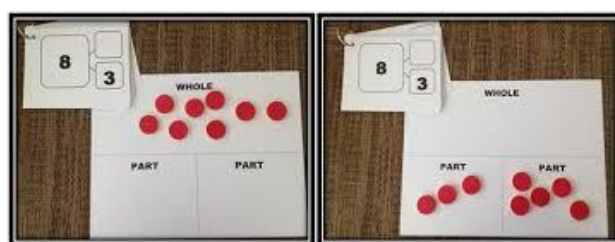
Ⓖ Gold Award Ⓖ

To achieve your gold award, you must be able to give the answer of a particular bond in a random order and know all associated subtraction facts. E.g. 4 + ◯ = 4 ; 4 - ◯ = 2 ; 4 – 3 = ◯ and so on.

Once Parents/Carers have signed off the bronze and silver award, the teacher or teaching assistant will test for the gold award.
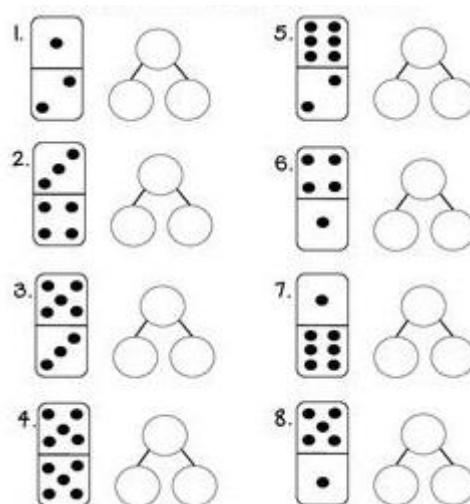
Number Bond Badge

When you have been awarded all 12 gold awards for each section, you are ready to try for your Number Bond badge. You must be able to answer questions from all the number bonds. When this activity has been passed, you will receive a special Number Bonds enamel badge!

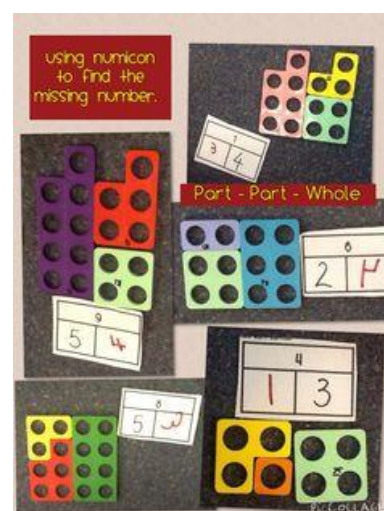Now you can work towards your times tables award!

Finding number bonds using counters

Finding number bonds using dominoes

Main changes:
- We ask that parents now sign off underneath the bronze and silver award (old cards can still be used- the new cards will be phased in)
- Sign off by initialling underneath appropriate grid over the top of the bronze and silver emblem.

Number bond and Times Table Awards

X tables Colour awards

- Bronze times table **(Parent/Carer initials)**
- Silver times table award per times tables **(Parent/Carer initials)**
- Gold times table award per times tables (Teacher/TA initials)

X Tables Badge

- 20 mixed times table questions, including division facts.

0 x 1 = 0	0 x 2 = 0	0 x 3 = 0		0 x 7 = 0	0 x 8 = 0	0 x 9 = 0
1 x 1 = 1	1 x 2 = 2	1 x 3 = 3		1 x 7 = 7	1 x 8 = 8	1 x 9 = 9
2 x 1 = 2	2 x 2 = 4	2 x 3 = 6		2 x 7 = 14	2 x 8 = 16	2 x 9 = 18
3 x 1 = 3	3 x 2 = 6	3 x 3 = 9		3 x 7 = 21	3 x 8 = 24	3 x 9 = 27
4 x 1 = 4	4 x 2 = 8	4 x 3 = 12		4 x 7 = 28	4 x 8 = 32	4 x 9 = 36
5 x 1 = 5	5 x 2 = 10	5 x 3 = 15		5 x 7 = 35	5 x 8 = 40	5 x 9 = 45
6 x 1 = 6	6 x 2 = 12	6 x 3 = 18		6 x 7 = 42	6 x 8 = 48	6 x 9 = 54
7 x 1 = 7	7 x 2 = 14	7 x 3 = 21		7 x 7 = 49	7 x 8 = 56	7 x 9 = 63
8 x 1 = 8	8 x 2 = 16	8 x 3 = 24		8 x 7 = 56	8 x 8 = 64	8 x 9 = 72
9 x 1 = 9	9 x 2 = 18	9 x 3 = 27		9 x 7 = 63	9 x 8 = 72	9 x 9 = 81
10 x 1 = 10	10 x 2 = 20	10 x 3 = 30		10 x 7 = 70	10 x 8 = 80	10 x 9 = 90
11 x 1 = 11	11 x 2 = 22	11 x 3 = 33		11 x 7 = 77	11 x 8 = 88	11 x 9 = 99
12 x 1 = 12	12 x 2 = 24	12 x 3 = 36		12 x 7 = 84	12 x 8 = 96	12 x 9 = 108

0 x 4 = 0	0 x 5 = 0	0 x 6 = 0		0 x 10 = 0	0 x 11 = 0	0 x 12 = 0
1 x 4 = 4	1 x 5 = 5	1 x 6 = 6		1 x 10 = 10	1 x 11 = 11	1 x 12 = 12
2 x 4 = 8	2 x 5 = 10	2 x 6 = 12		2 x 10 = 20	2 x 11 = 22	2 x 12 = 24
3 x 4 = 12	3 x 5 = 15	3 x 6 = 18		3 x 10 = 30	3 x 11 = 33	3 x 12 = 36
4 x 4 = 16	4 x 5 = 20	4 x 6 = 24		4 x 10 = 40	4 x 11 = 44	4 x 12 = 48
5 x 4 = 20	5 x 5 = 25	5 x 6 = 30		5 x 10 = 50	5 x 11 = 55	5 x 12 = 60
6 x 4 = 24	6 x 5 = 30	6 x 6 = 36		6 x 10 = 60	6 x 11 = 66	6 x 12 = 72
7 x 4 = 28	7 x 5 = 35	7 x 6 = 42		7 x 10 = 70	7 x 11 = 77	7 x 12 = 84
8 x 4 = 32	8 x 5 = 40	8 x 6 = 48		8 x 10 = 80	8 x 11 = 88	8 x 12 = 96
9 x 4 = 36	9 x 5 = 45	9 x 6 = 54		9 x 10 = 90	9 x 11 = 99	9 x 12 = 108
10 x 4 = 40	10 x 5 = 50	10 x 6 = 60		10 x 10 = 100	10 x 11 = 110	10 x 12 = 120
11 x 4 = 44	11 x 5 = 55	11 x 6 = 66		11 x 10 = 110	11 x 11 = 121	11 x 12 = 132
12 x 4 = 48	12 x 5 = 60	12 x 6 = 72		12 x 10 = 120	12 x 11 = 132	12 x 12 = 144

Bronze Award

To achieve the bronze award, you must be able to recite the times tables in numerical order, e.g. 0 times 1 equals 0, 1 times 1 equals 1, 2 times 1 equals 2 etc…

Silver Award

To achieve the silver award, you must be able to recite the times tables in a random order, e.g. 3 sixes are 18, or 11 times 6 equals 66 etc…
When you've shown your Parents/carers that you can do this, they may sign the silver award.

Gold Award

To achieve the gold award, you must be able to recite the times tables in a random order and know all associated division facts: E.g. 48 divided by 8 is… (6); 8 times 6 (48); how many 8's in 24? (3)
Once Parents/Carers have signed off the bronze and silver award, the teacher or teaching assistant will test for the Gold award.

Times Tables Badge

When you have been awarded all 12 gold awards for each times table, you are ready to try for your Times Tables badge! You will be asked 20 multiplication and division questions, including problem solving, from a variety of times tables. Good Luck!

Main changes:
- We ask that parents now sign off underneath the bronze and silver award (old cards can still be used- the new cards will be phased in)
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Learning the times tables – (Research based method from Baroody)

Phase 1
counting

Jake, Bianca, Shanice, and Aidan each have 3 markers. How many markers to they have in all?

4 x 3 = 12

3, 6, 9, 12 is still counting

Phase 2
reasoning from known facts

4 TIMES 3
Double (double 3) = Double 6 = 12

- Partitioning
  eg 8x4 = 5x4 + 3x4
- Doubling

Phase 3
know as a fact

Equal Groups Model

3 x 5 = 15

3 flowers, 5 petals per flower, 15 petals in all

Draw a diagram to help visualise the equal groups

We need to read the nouns

When we do too much pencil + paper working we are outsourcing metacognition

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- The Emerald Award consists of the application of times tables facts to; large numbers, fractions of numbers, missing number calculations, area, perimeter, square numbers and 2 and 3 step problems. (This used to be the Gold Award)

X tables Diamond

- The Diamond Award consists of a project, completed at home, where children independently complete a greater depth task that will use their problem solving skills together with their reasoning to produce a journal style project.

Seven from nine

In how many different ways can seven different numbers (chosen from the numbers 1 to 9, inclusively) have a total which is a multiple of 3?

$6 \times 4 - = 24$

$60 \times 4 = ?$

Double 12 then divide by 4

$3 \times 2 \times 2 \times 2$

How many different ways can you make 24 pence using coins?

A rectangle has a length of 6cm and a height of 4cm. What is the area of the rectangle?

24 children were split evenly between 4 tables. How many children will there be on each table?

24 children were split evenly between 4 tables. How many children will there be on each table?

Using this number fact, find me another

Name a pair of factors for 240

Is 264 in the 6 times table?

$0.6 \times 4 = ?$

What % is 6 of 24?