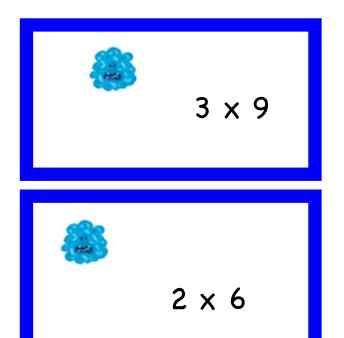
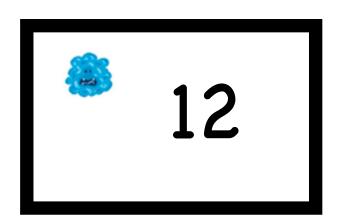
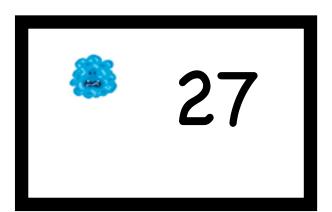
Mental Maths

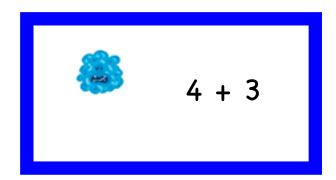
Cards

Card version of mental maths boards









Mental Maths Cards

Work in progress with Y3. This looks like it will always be in progress so here is a good opportunity to invite you all to try out progress so far and to take it further. Please share!

www.collaborativelearning.org/mentalmathscards.pdf Last updated 27th April 2020 Good for all pupils! Vital for EAL pupils!

Basic principles behind our talk for learning activities:

Oracy in curriculum contexts!

It's empowering to talk an idea through before you write about it!

Build on chidren's own prior knowledge.

Move from concrete to abstract.

Ensure everyone works with

everyone else.

Extend social language towards

curriculum language.

Provide motivating ways to go over the
same knowledge more than once.

Mental Maths Cards

Here are card versions of the Mental Maths Boards another way to encourage children to work together in twos (and later in threes) to carefully follow instructions and then scan and solve mental maths problems rapidly and collaboratively.

The card activity helps co-construction through moving the cards around and cross checking. It is important that the children (not you!) keep the cards in order and they are all marked (we've topically used coloured microbes) so that, when we/you develop a second or third set, they can be sorted into correct sets which is in itself a mental maths activity!

Depending on how they work we can change the boards to have a different set of whole numbers moving up to larger numbers and vary the number of calculations rather than have the same for each number.

Progress so far but we are trying out more ways to play and welcome your suggestions:

Red and Blue Mock Microbes: two different card games for the same numbers as the Flying Frog.

Green/yellow Mock Microbes: card game for simpler numbers 2, 4, 6, 8, 10, 12, 14, 16

Instructions for Mental Maths Card Game Set A Game One Red Mock Microbes



Two or three players.

Lay all the calculation cards out on the table face up.

Put the whole number cards together and shuffle them. Place them face down in the middle of the table.

Pick the top card and place face up.

Now try to find as many calculation cards as you can that result in the number on the top card.

result in the number on the top card.	
Mhole number cards - Set A -Whole number cards 12	whole number cards - Set A -whole number card
	S - Set A - Whole number cards - Set A - Whole n
	Set A -whole number cards - Set A -whole number
www.collaborativelearning.org/mentalmathscards.pdf	Set A -whole number cards - Set A -

Instructions for Mental Maths Card Game Set A Game Two Blue Mock Microbes



Two or three players. You will need some coloured counters.

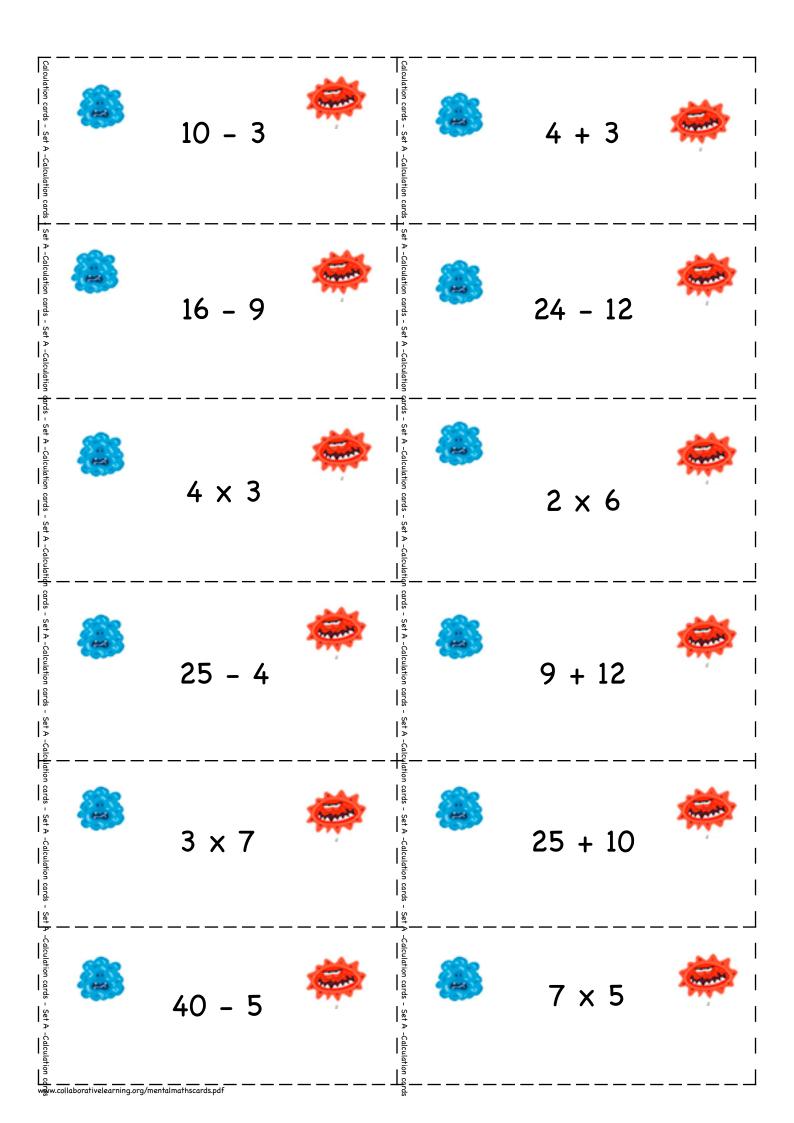
Each player picks a number card and places it face up in front of them.

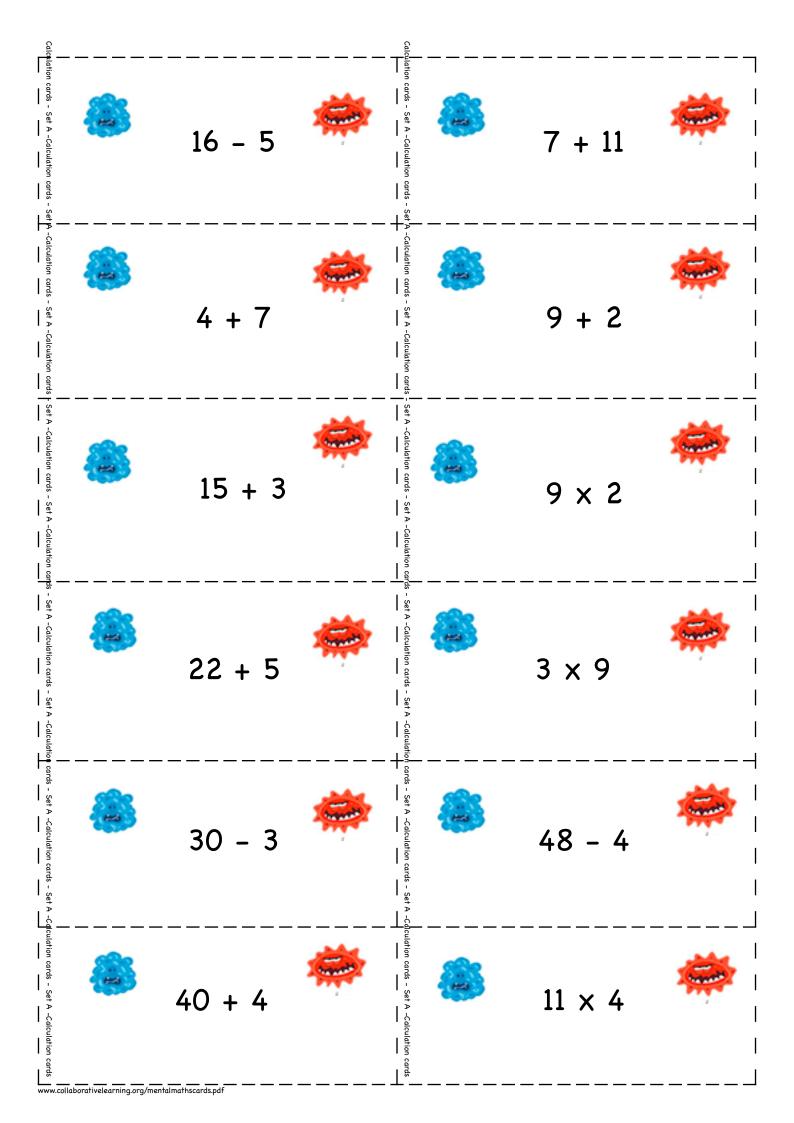
One player shuffles all the calculation cards and then deals five cards face up on the table.

If you can find a calculation that matches your number, you can take a counter.

Players pick a different number card. Second player gathers up the calculation cards, shuffles and deals five more cards. Take turns to deal the calculation cards. Play the game five times and the winner is the player with the most coloured counters.

Whole number cards - Set A - Whole number cards	whole number cards - Set A -Whole number card
Mole number cards - Set A -whole number cards - Set A -who	11 18 18 27 A-Whole number cards - Set A -Whole number
mlmber cards - Set A -Whole number cards -	number cards - Set A -Whole number cards -
Toole number and set to the number of the nu	44 Set A -whole number cards - Set A -





Instructions for Mental Maths Card Game Set B Game One Green and Yellow Mock

Two or three players.

Microbes

Lay all the calculation cards out on the table face up.

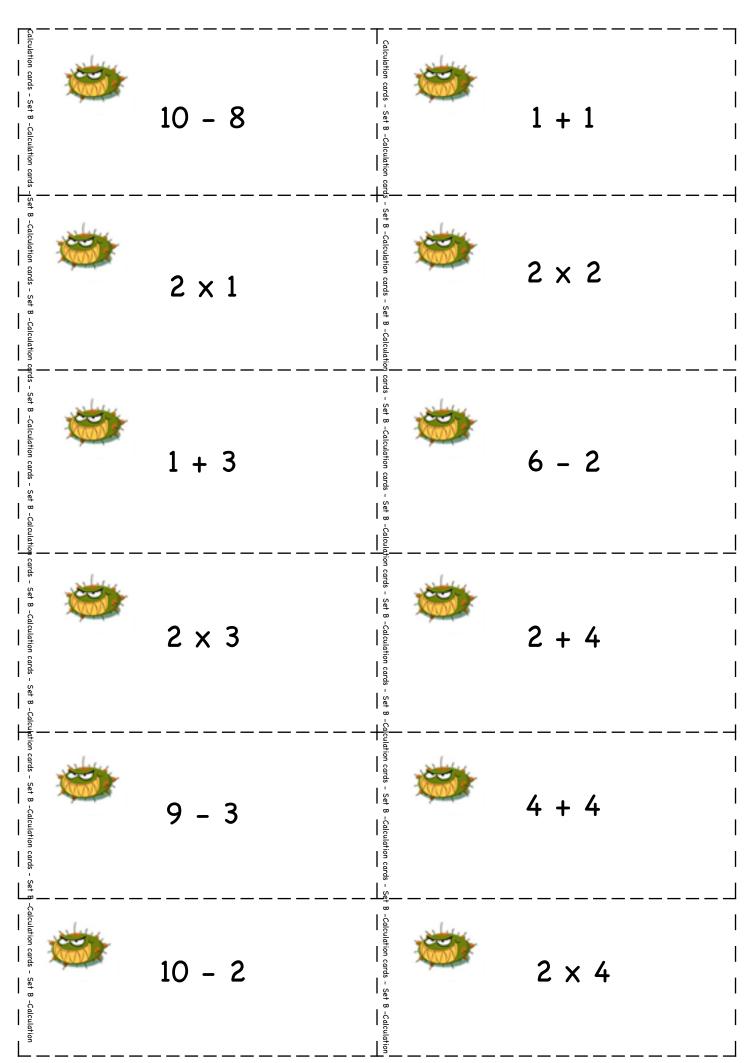
Put the whole number cards together and shuffle them. Place them face down in the middle of the table.

Pick the top card and place face up.

Now try to find as many calculation cards as you can that result in the number on the top card.

Then place the number card at the bottom of the pile and turn over the next top card.

card. Whole number cards - Set 8 -Whole numl	Whole number cards - Set B -Whole number cards
2	I and the second
number cards - Set B -Whole number cards	12 Set B -Whole number cards - Set B -Whole number cards
Set B - Whole number cards and set of the se	16



10 – 0	5 + 5
2 × 5 Set B -Calculation cards - Set B -Calculation	5 - Set B -Calculation cards - Set B -Calculat
10-0 10 - 0 10 - 0 10 - 0 10 - 0 10 - 0 10 - 0 10 - 00	5 + 5 6 × 2 5 + 7
7 + 7	
2 x 7	20-6 $7+9$ $17-1$ Set B -Calculation cards -
Calculation cards - Set B - Ca	17 - 1