



YEAR 3 INSPIRE

CPA APPROACH

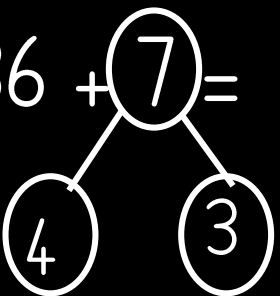
- In Maths we use a CPA approach.
- Concrete — children can learn new concepts by using concrete materials such as base 10 materials
- Pictorial — children will apply skills/explore concepts using picture representations such as place value charts or a part whole model
- Abstract — this is the Maths you're probably most familiar with. This is calculations and problem solving represented by numbers

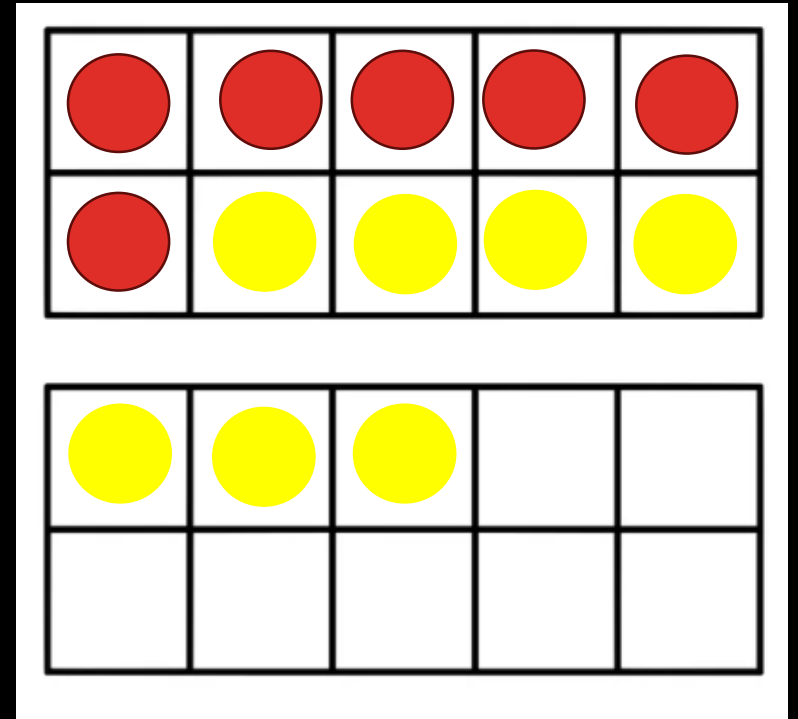
WHY MENTAL MATHS?

- It's important the children have good mental maths skills as this is the foundation of all Maths and will support them with solving more complex maths problems.
- By giving children the tools that they need to master mental maths, you're opening up a world of possibilities and giving them a great deal of independence. It also improves their memory skills, which will benefit them in all aspects of their learning journey. Mental maths is the key to confidence and fluency.

ADDITION

- Number bonds can help us mentally add

- $36 + 7 =$




IMPORTANT MENTAL MATHS SKILLS

- Number bonds
- Doubles and halves
- Times tables and related division facts
- Addition and subtraction

Number Facts	Example
Doubles up to 10	$1 + 1 = 2$ $5 + 5 = 10$ $9 + 9 = 18$
Doubles up to 20	$10 + 10 = 20$ $15 + 15 = 30$
Number facts to 5	$1 + 4 = 5$ $3 + 2 = 5$
Number facts to 10	$6 + 4 = 10$ $3 + 7 = 10$
Ten and over	$17 + 2 = 19$ $10 + 5 = 15$
Bridging over 10	$7 + 6 = 13$ $3 + 8 = 11$
Number facts to 20	$13 + 7 = 20$ $15 + 5 = 20$

WHY ARE TIMES TABLES IMPORTANT?

At the end of Year 4, all children will take a times tables test. There are 25 questions and they will have 6 seconds to answer each question and each question will be random.

https://talkingtimestables.uk/y4_ks2_mtc_practice_tests_multiplication_tables_check.php

99 CLUB

Another way to help with your child's multiplications fluency and mental maths is our 99 Club. These are a series of tests that get progressively harder and they have to answer all the questions in a set time, depending what club they are on.

Lets have a go at 44 club- you have 5 minutes to answer all 44 questions.

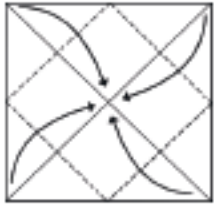
Instructions

①



With pictures face down, fold on both diagonal lines. Unfold.

②



Fold all four corners to the centre.

③



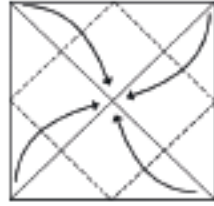
Turn paper over.

⑦



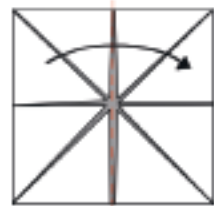
Slide thumbs and forefingers under the squares and move the fortune teller back and forth to play.

④



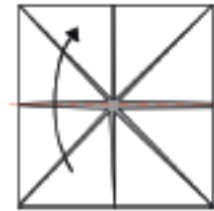
Once again, fold all corners to the centre.

⑤



Fold paper in half and unfold.

⑥



Fold in half from top to bottom. Do not unfold.

FORTUNE TELLER/ CHATTERBOX

Here is a craft you can make to help practice the times tables too.

GAMES

We find that playing games can really help the children learn and stay engaged with learning. So on your tables is a selection of games.

Choose a maths game from the table to play and have fun!



Thank you for attending our Year 3
INSPIRE session.