# Aughton St Michael's 



## Maths Parent Workshop

## Oct 2022

## What we do works!

KS1 data
ARE- 76\%
GD-35\%

KS2 Data
ARE- 87\% NA 71\%
GD-43\% NA 22\%

Times tables
62\% NA 30\%

ARE= Age related expectations
GD= Greater Depth
NA= National Average

## Overall curriculum INTENT

To create independent and resilient learners who enquire into the world around them.

## Maths curriculum INTENT

To create independent and resilient mathematicians who can use reasoning to enquire into problems and use Maths to better understand the world around them.

I've parked my car at the Trafford Centre and can't work out the number of the space l've parked in. Can you help me out?

|  |  |  |  |  |  |
| :---: | :--- | :--- | :--- | :--- | :--- |
| 16 | 06 | 68 | 88 |  |  |

I've parked my car at the Trafford Centre and can't work out the number of the space l've parked in. Can you help me out?

| 86 | 88 | 89 | 90 | 91 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Our Curriculum

－Within our curriculum we ensure that we cover all the objectives set out in the National Curriculum 2014．（Mastery）

## To help ensure this we：

－Follow the Lancashire Maths Planning documentation from Lancashire Mathematics Centre．
－Spiral Curriculum
ルロடロ

## Bruner＇s Spiral Curriculum

（1）The student revisits a topic，theme or subject
（2）The complexity of the topic or theme increases with each revisit
（3）New learning has a relationship with old learning and is put in context with the old information．


|  | Home | Classes | Our School | Parents | Curriculum | Policies | Contact |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | Curriculum Intent |  |  |  |
| Maths |  |  |  |  | Maths |  |  |  |
|  |  |  |  |  | English |  |  |  |
| Within our curriculum we ensure that we cover all the objectives set out in the N |  |  |  |  | Books to Read Before You Leave Aughton St Michael＇s |  |  |  |
| To help ensure this we： |  |  |  |  | Religious Education |  |  |  |
| Follow the Lancashire Maths Planning documentation from Lancashire Mathema on the internet．If you wish to see a copy please make an appointment with the |  |  |  |  | Other Subjects |  |  | displayed |
| Mathematics Programmes of Study |  |  |  |  | Assessment |  |  |  |
| Files to Download |  |  |  |  | Maths Workshop Resources |  |  |  |
| Addition Methods Summary |  |  |  |  | We Love Reading |  |  |  |
| Calculation Policy：Addition |  |  |  |  | Enhancement Days |  |  |  |
| Calculation Policy：Multiplication |  |  |  |  |  |  |  |  |

## What does this mean on a day-to-day basis?

- Avoiding a procedural approach to teaching maths.

Mastering mathematical understanding

The CPA approach

- Concrete - the 'doing phase'

- Picture - the 'seeing phase'

- Abstract - the 'symbolic phase'

$$
4+4=8
$$

$$
4 \times 2=8
$$

The Concrete, Pictorial, Abstract approach (CPA) is a highly effective approach to teaching that develops a deep and sustainable understanding of maths in pupils.

Maths baskets are used from Reception to Year 6


## What does this mean on a day-to-day basis?

$>$ Reasoning is seen daily throughout our maths lessons.
For example the following question could be shown in the following ways


## Explanation

Jack thinks of two 2-digit numbers and add them together his answer is 203. Explain how you know he has made a mistake.

## Explanation

- The biggest 2-digit number is 99 .
- $99+99=198$
- So the largest possible answer he could get is 198.
- His answer is 203 which is greater than 198, so he is incorrect


## Explanation

Look at the following statement and decide if it is always true, sometimes true or never true

## If I add 2 numbers the

 answer always gets bigger
## Explanation

## If I add 2 numbers the answer always gets bigger

## Sometimes

$4+2=6$ so it's got bigger.
$4+0=4$ so it's stayed the same.
$4+-1=3$ so it's got smaller.

## Today’s Workshops

- KS1 Addition and subtraction methods.
- Multiplication: Grid Method
- Division written methods
- Fractions
- Miss Harrison
- Miss. Stone
- Mr Quirk
- Mrs Wood


## Maths drop ins

| Tuesday $4^{\text {th }}$ October | $9: 15 \mathrm{am}$ | Year 5 |
| :--- | :--- | :--- |
| Wednesday $5^{\text {th }}$ October | $9: 15 \mathrm{am}$ | Year 4 |
| Wednesday $5^{\text {th }}$ October | $11: 00 \mathrm{am}$ | Year 1 |
| Thursday $6^{\text {th }}$ October | $9: 15 \mathrm{am}$ | Year 2 |
| Thursday $6^{\text {th }}$ October | $11: 00 \mathrm{am}$ | Year 3 |
| Friday $7^{\text {th }}$ October | $9: 15 \mathrm{am}$ | EYFS |
| Friday $7^{\text {th }}$ October | $11: 00 \mathrm{am}$ | Year 6 |

