

# Devonshire Primary Academy Mathematics Policy



Implementation Date: September 2014

Adopted by Governors/HT: HT

Review period: 3 Years

Last review date: November 2019

Person responsible for policy: Ms S. O'Hagan

## **Aims**

The aim of this policy is:

- ✓ To ensure that all children are challenged appropriately to allow them to develop mastery in the subject
- ✓ To ensure consistency across the subject
- ✓ To ensure all teachers have high expectations of all children

At Devonshire Primary Academy we follow the **White Rose** Scheme of Work and use **Classroom Secrets**; an online tool with differentiated and suitable resources for all primary ages.

# **Prior Learning**

The purpose of prior learning is to establish a starting point; to ensure that the teacher has a clear understanding of what the children in their class already know and where any gaps in their knowledge are. The aim is to ensure that the children have a secure understanding of the curriculum that they are being taught to ensure that they are confident to apply their learning to a range of different contexts.

- ✓ Prior learning should be accessible to all pupils within the class
- ✓ One or two questions from each programme of study is enough to check understanding
- ✓ An understanding of vocabulary should be checked to ensure that the children are able to access word/reasoning problems

Prior learning should be completed at the beginning of each new topic (regardless of whether the topic has been covered before) in pencil; this should be marked/self- assessed after completion.

Teachers should adapt their lesson planning around the outcome of the prior learning to ensure pupils are accessing work from their starting point.

Once the topic has been taught and practised by pupils, the prior learning should be revisited in purple pen which will show visible progress in their workbooks.

(See the WAGOLL and examples in appendix 1.)

## 'Steps to Success'

Steps to Success (process success criteria) "...are more detailed, task specific success criteria that guide learners whilst they are engaged in learning."

#### The Aim:

- ✓ Pupils will use Steps to Success as instructions/a prompt which will allow them to complete a task independently
- ✓ Pupils will be able to easily identify where they are making mistakes/where they are missing out steps before applying the 4B's

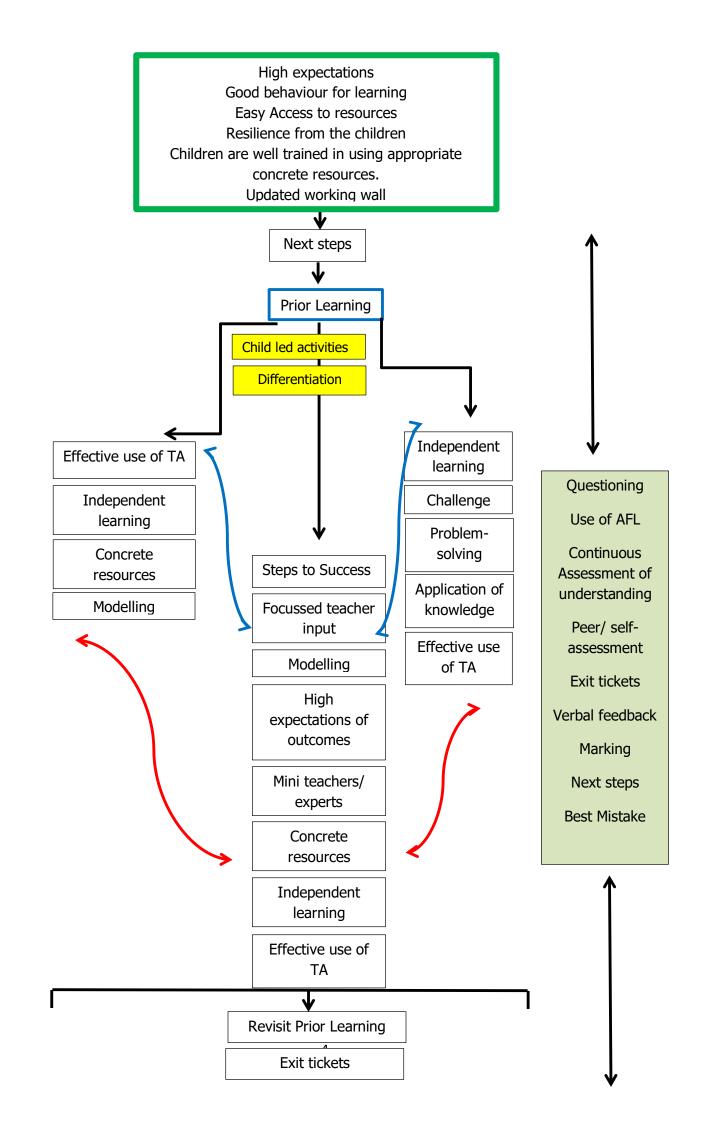
The Steps to Success should be presented in a way that is meaningful for the class (see examples in appendix 2).

# They could be:

- ✓ Generated independently, following the teacher input
- ✓ Generated as a group to check understanding and consolidate the learning.
- ✓ Generated by the class teacher as each step is taught
- ✓ A selection of 'Steps to Success' that are mixed up, ready for pupils to reorder.

Pupils should be encouraged to use them during the lesson as a strategy to build independence and resilience.

Steps to Success must be used for every concept that follows a process.



# **Glossary**

What is meant by certain terms used throughout the policy, according to Devonshire staff.

<u>Resilient Children:</u> will try a variety of different methods and show their working out. You will see them supporting their peers and embracing the challenges they are given rather than giving up when something seems tricky in the first instance.

To create this atmosphere, you will see teachers celebrating mistakes and modelling ways to check/overcome them. There will be a learning pit in the classroom and you may see children/teachers using them to discuss how a learner is feeling about a task. Teachers will often praise pupils for 'having a go' or highlighting an area that many children are finding difficult so that any issues can be addressed. ABC will be apparent throughout the lesson to encourage children to support each other.

<u>Working Walls:</u> will display current learning. You will find relevant vocabulary that is referred to by the teacher and children throughout the lesson; this will support the learning taking place. There may be evidence of a WAGOLL (including 'Steps to Success')/WABOLL that has been generated by the children during the sessions which highlights mistakes that have been made. All of the resources on the display must be purposeful; they should assist the children with becoming more independent.

<u>Independence</u>: Our aim is to create independent, resilient learners. If the children are independent learners, you may see children choosing a task that provides an appropriate level of challenge. The children will be using the 'confidence cards/cups' to show how they are feeling about a particular task and you will see peers supporting one another when they are finding tasks difficult. The children are aware of the 4B's and they use them if they are struggling. Resources are accessible around the classroom and you will see the children selecting them carefully to suit the task that they are completing.

<u>Access to Resources:</u> In each classroom you will see clearly labelled resources that the children have easy access to. There will be a range of resources, which are fit for use, for each area of the curriculum that the all of the children know how to use appropriately. The adults in the room have a clear knowledge of which resources are available and can be seen encouraging the children to use them if they are finding their task difficult.

<u>High Expectations:</u> In a class with high expectations you will see children taking pride in the presentation of their work; they will be completing work that is suitably challenging. Most children will be working independently; however, you may see some children supporting their peers. All of the children will be actively listening and there is a positive learning atmosphere. They are aware of what is expected of them and the teacher models the expectations consistently.

<u>Good Behaviour for Learning:</u> The children demonstrate good behaviour for learning by following the instructions that they are given, on the first occasion, without making a fuss. There will be focussed and positive discussions around the learning taking place in the classrooms and the children will be using the 4B's as means of support in the first instance to ensure that they are working as independently as possible. Tracking and ABC will form

part of the lesson and the children encourage and support each other throughout the process. All children listen to one another respectfully.

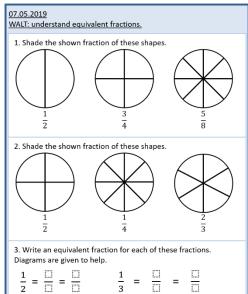
# **Appendix 1**

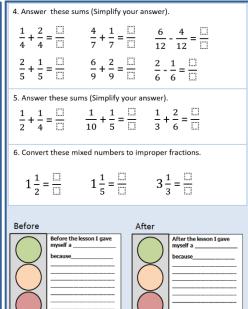
Prior learning: Tuesday 30<sup>th</sup> April 2019

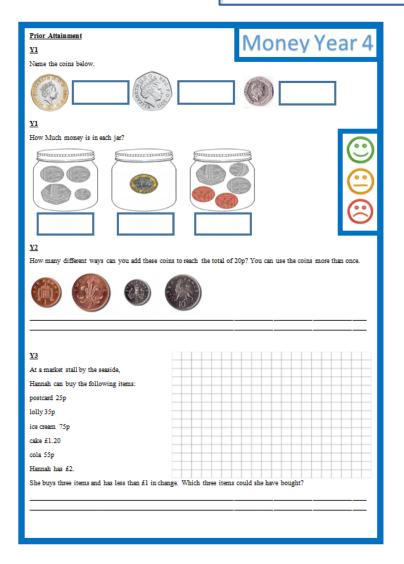
WALT: Add and subtract a multiple of 100 to a three digit number

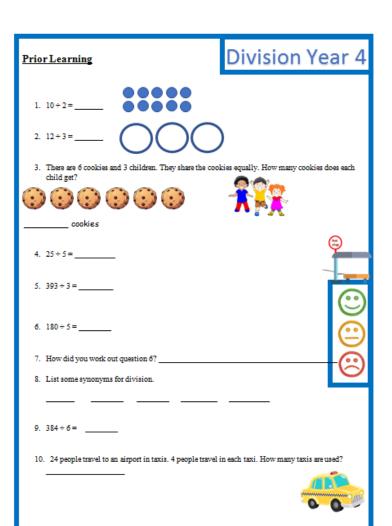
1) 256 + 200 =
2) 765 + 300 =
3) 964 − 500 =
4) 874 − 600 =
5) 832 - ? = 532

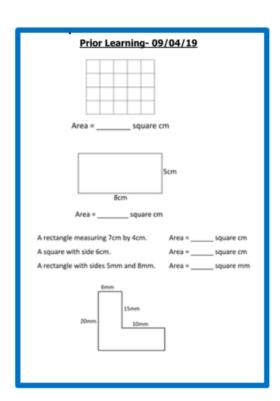
6) ? - 200 = 498

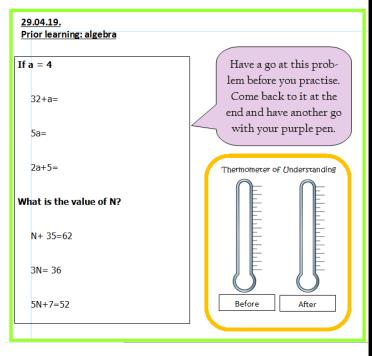


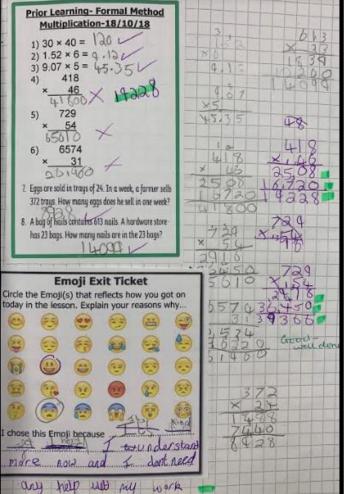


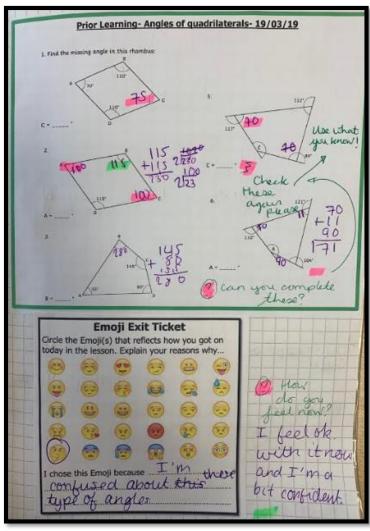


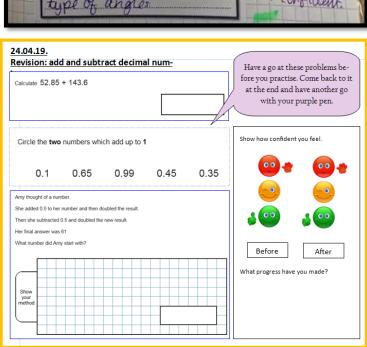




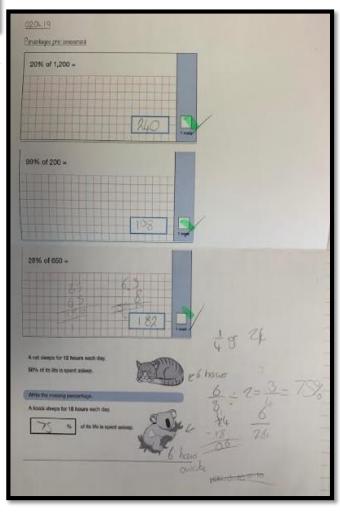








Use SIDMAS to calculate with all four operations.	Prior Learning
Date 1: Date 2:	
20 - 4 × 2 =	
Write the missing numbers to make these calculations correct.	
200 ×	
(100 – ) × 100 = 100	
Write what the <b>two missing</b> numbers could be.	
+ = 8	
Write what the <b>two missing</b> numbers could be.	
(4 + ) × = 100	
Write the missing number.	
30 - 16 = 9 +	



# **Appendix 2**

