

Cadmore End

Our school has adopted the White Rose Hub's calculation document, adapting it to match with our school's approach. The 'Age Appropriate Range' reflects when the objective and strategies are learnt and children are continuing to develop their depth of understanding. At the end of this range, children should be fluent with that element. The concrete resources depicted in the videos are not the only resources that will be used. However, they are the primary manipulatives for each element.

Addition		
Objective & Strategies	Video Explanation Link	Age Appropriate Range
1) Combining two parts to make a whole: part part whole model	https://vimeo.com/194167506	Reception - Year 2
2) Starting at the bigger number and counting on	https://vimeo.com/194168153	Reception - Year 1
3) Regrouping to make 10	https://vimeo.com/194169143	Year 1 - Year 2
4) Adding 3 single digits	https://vimeo.com/194178049	Year 1 - Year 2
5) Expanded Column Method - no regrouping (exchanging)	https://vimeo.com/194170892	Year 2 - Year 3
6) Expanded Column Method - regrouping (exchanging)	https://vimeo.com/194173017	Year 2 - Year 3
7) Column Method - Compact	https://vimeo.com/194173804	Year 3 - Year 4

Subtraction

Objective & Strategies	Video Explanation Link	Age Appropriate Range
1) Taking away ones	https://vimeo.com/196549268	Reception - Year 1
2) Counting back	https://vimeo.com/196550163	Reception - Year 2
3) Part part whole model	https://vimeo.com/196551390	Year 1 - Year 2
4) Finding the difference	https://vimeo.com/196552677	Year 1 - Year 3
5) Making 10	https://vimeo.com/196553712	Year 1 - Year 3
6) First steps of of formal column subtraction (including exchanging)	https://vimeo.com/196556686	Year 2 - Year 3
7) Column Subtraction	https://vimeo.com/196558650	Year 3 - Year 4

Multiplication

Objective & Strategies	Video Explanation Link	Age Appropriate Range
Doubling	https://vimeo.com/205760881	Reception - Year 1
Counting in multiples	https://vimeo.com/205761484	Reception - Year 4
Repeated addition	https://vimeo.com/205761867	Year 1 - Year 2
Arrays	https://vimeo.com/205762225	Year 1 - Year 3
Grid Method	https://vimeo.com/205763255	Year 3
Written multiplication	https://vimeo.com/205767370	Year 3 - Year 6

Division

Objective & Strategies	Video Explanation Link	Age Appropriate Range
Division as sharing	https://vimeo.com/206862682	Reception - Year 2
Division as grouping	https://vimeo.com/206867655	Year 1 - Year 2
Division within arrays	https://vimeo.com/206870797	Year 3 - Year 6
Short division	https://vimeo.com/206883667	Year 3 - Year 5
Long division	https://vimeo.com/206898235	Year 6

