

**Year 6 Maths Long Term Overview Version 3.0**

***Rationale***

This overview is designed to run alongside the White Rose Schemes of Learning (Version 3.0) found [here](https://whiterosemaths.com/resources/primary). The small steps within White Rose are not necessarily designed to cover one lesson so some may be repeated which can be used to consolidate concepts or allow children greater access to reasoning and problem solving. This is particularly evident in the Y1 schemes. The lessons that are linked to the [DFE ready to progress criteria](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/897806/Maths_guidance_KS_1_and_2.pdf) are identified with a reference such as **(NPV-1),** teachers can use these to refer to the document for additional planning support. Due to differing term lengths, these overviews do not directly match those on White Rose. For instance, some units are started earlier in the term or the term before, but they all correlate with the schemes of learning.

***Vocabulary***

There are also two vocabulary rows on the document, which show the subject specific vocabulary that needs to be introduced or re-introduced as part of the unit as well as what should have been covered in the previous year group. It is essential that teachers refer to previous year’s vocabulary especially if children are not secure. If children are still struggling to define certain pieces of vocabulary, teachers should be encouraged to reintroduce them. Whole school vocabulary progression documents are within the Maths area on ReachIn and this language is also present on the accompanying knowledge organisers.

**Consolidation/revisiting**

The consolidation row has been removed from the most recent overviews as we suggest that the White Rose ‘Flashback 4s’ are used to revisit and consolidate learning as they reduce workload for teachers and comprehensively revisit taught content. If you chose not to use these, teachers should be encouraged to spend half the week looking at the previous year’s small steps before teaching a unit and revisit them briefly. For the other half, they’d be encouraged to revisit learning they’ve done during the current year.

Also, the new White Rose schemes have removed the explicit recap sessions, however the beginning of the units include steps from the previous year to ensure children have the required knowledge to access new learning.

***Assessment/Consolidation Weeks***

The end of unit assessments have been left in, these can be taken from the previous years’ resources as they will broadly match the topic being taught. Finally, within the plans there are also assessment/consolidation weeks which have been put in to revisit topics children struggled with or as buffers for if and when units overrun to accommodate assessments, trips, productions etc. These documents are fully editable, so topics or assessment weeks can be moved around or lengthened/shortened if necessary to accommodate different term lengths or to provide more weeks for SATS-based revision. These overviews ensure that all of the Y6 curriculum is covered before the SATS, however, assessment may indicate that more or less time needs to be attributed to certain topics. The term lengths are kept as seven weeks for the two autumn half terms and summer 2 and six for the rest. However, they can be adapted to meet differing term lengths.

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| **Autumn 1** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** |
| **Units** | **Number: place value** | **Number: place value** | **Number: addition, subtraction, multiplication, division.** | **Number: addition, subtraction, multiplication, division.** | **Number: addition, subtraction, multiplication, division.** | **Number: addition, subtraction, multiplication, division.** | **Number: addition, subtraction, multiplication, division.** |
| **Lesson objectives (Small steps)** | 1) Numbers to a 1,000,000 **(NPV-2)**  2) Numbers to 10,000,000 **(NPV-2)**  3) Read and write numbers to 10,000,000 **(NPV-2)**  4) Power of 10 | 5) Number line to 10,000,000 **(NPV-2)**  6) Compare and order any integers **(NPV-3)**  7) Round any integer **(NPV-3)**  8) Negative numbers **(NPV-3)**  9) Mini-assessment/  consolidation | 1) Add and subtract integers  2) Common factors  3) Common multiples  4) Rules of divisibility | 5) Primes to 100  6) Square and cube numbers  7) Multiply up to a 4-digit number by a 2-digit number  8) Solve problems with multiplication | 9) Short division  10) Division using factors  11) Introduction to long division  **Only 3 small steps for these two weeks to give time for teaching of long division** | 12) Long division with remainders  13) Solve problems with division  14) Solve multi-step problems  **Only 3 small steps for these two weeks to give time for teaching of long division** | 15) Order of operations  16) Mental calculation and estimation  17) Reason with know facts  18) Mini assessment/  consolidation |
| **Vocabulary (Year group specific)** | Calculate intervals  Integer  Millions  Ten Million | Calculate intervals  Integer  Millions  Ten Million  Negative numbers | Multi-digit number  Long multiplication  Divisibility | Multi-digit number  Long multiplication | Multi-digit number  Factors  Long division | Multi-digit number  Factors  Long division | Multi-digit number  Factors  Long division |
| **Previous years’ Vocabulary** | Powers of  Rounding  Ten Thousand  One Hundred Thousand  Integer | Powers of  Rounding  Ten Thousand  One Hundred Thousand  Integer | Multiples  Factors  Short division  Remainders  Decimals  Product  Operations  Integers | Multiples  Factors  Short division  Prime numbers  Square Numbers  Cube Numbers  Remainders  Decimals  Product  Operations  Integers | Multiples  Factors  Short division  Remainders  Decimals  Dividend  Divisor  Quotient  Operations  Integers | Multiples  Factors  Remainders  Decimals  Product  Dividend  Divisor  Quotient  Operations  Integers | Multiples  Factors  Short division  Remainders  Decimals  Product  Dividend  Divisor  Quotient  Operations |

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| **Autumn 2** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** |
| **Units** | **Number: Fractions A** | **Number: Fractions A** | **Number: Fractions B** | **Number: Fractions B** | **Assessment week/consolidation week** | **Measurement: converting units** | **Consolidation week** |
| **Lesson objectives (Small steps)** | 1) Equivalent fractions and simplifying **(F-1)**  2) Equivalent fractions on a number line **(F-1)**  3) Compare and order (denominator) **(F-2/3)**  4) Compare and order (numerator) **(F-2/3)** | 5) Add and subtract simple fractions  6) Add and subtract any two fractions  7) Add mixed numbers  8) Subtract mixed numbers  9) Multi-step problems | 1) Multiply fractions by integers  2) Multiply fractions by fractions  3) Divide a fraction by an integer  4) Divide any fraction by an integer | 5) Mixed questions with fractions  6) Fraction of an amount  7) Fraction of an amount – find the whole  8) Mini-assessment/consolidation | Week can be used to carry out assessment or as an opportunity to consolidate learning done so far.  Also can be used as a buffer or to extend Fractions B  **This week may want to be moved to week 3 to break up the fractions units** | 1) Metric measures  2) Convert metric measures  3) Calculate with metric measures  4) Miles and kilometres  5) Imperial measures | This week to act as a buffer for any units that over run or to revisit concepts children struggled with (also Xmas week and INSETs may be taking place)  **May also wish to extend the converting units week** |
| **Vocabulary (Year group specific)** | Factors  Integer | Factors  Integer | Factors  Integer | Factors  Integer |  | Conversion  Miles  Formulae |  |
| **Previous years Vocabulary** | Fifth  thousandths  Convert  Proper fractions  Improper fractions  Mixed numbers  Equivalent fractions  Multiples  Simplifying  Complements | Fifth  thousandths  Convert  Proper fractions  Improper fraction  Mixed numbers  Equivalent fractions  Multiples  Simplifying  Complements | fifth  thousandths  convert  proper fractions  Improper fractions  mixed numbers  Equivalent fractions  multiples  Simplifying  Complements | Fifth  thousandths  Convert  Proper fractions  Improper fractions  Mixed numbers  Equivalent fractions  Multiples  Simplifying  Complements |  | Decimal notation  Scaling  Metric units  Imperial units  Inches  Pounds  Pints |  |