National Curriculum Links

Links to the National Curriculum in England

# Chapter 13: Natural numbers: some key concepts

Pupils should be taught to:

## Year 1

* count in multiples of twos, fives and tens

## Year 2

* count in steps of 2, 3, and 5 from 0

## Year 3

* count from 0 in multiples of 4, 8, 50 and 100

## Year 4

* count in multiples of 6, 7, 9, 25 and 1000
* recognize and use factor pairs

## Year 5

* identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers
* know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers
* establish whether a number up to 100 is prime and recall prime numbers up to 19
* solve problems involving multiplication and division including using their knowledge of factors and multiples

## Year 6

* identify common factors, common multiples and prime numbers

Links to Curriculum for Excellence in Numeracy and Mathematics in Scotland

# Chapter 13: Natural numbers: some key concepts

## Second

***Experiences and outcomes:*** *Having explored the patterns and relationships in multiplication and division, I can investigate and identify the multiples and factors of numbers.* ***MTH 2-05a***

***Benchmark:***

* identifies multiples and factors of whole numbers and applies knowledge and understanding of these when solving relevant problems in number, money and measurement
* applies knowledge of multiples, square numbers and triangular numbers to generate number patterns
* explains and uses a rule to extend well known number sequences including square numbers, triangular numbers and Fibonacci sequence

Links to Curriculum for Wales: Programme of Study for Mathematics, Key Stages 2–4

# Chapter 13: Natural numbers: some key concepts

Learners should be taught to:

## Year 5

* identify multiples of 2, 3, 4, 5, 6, 8 and 10; use the terms multiple and factor
* identify prime numbers as having only two factors; recognize that 1 is not a prime number
* identify prime numbers below 10

## Year 6

* identify multiples of numbers up to 10; use the terms multiple and factor
* identify common multiples of two numbers
* identify common factors of two numbers
* identify prime numbers
* know prime numbers below 20

Australian Curriculum for Mathematics

This maps entries in the **Australian Mathematics Curriculum (from Foundation Stage to Year 7)** to the content of chapters of Haylock, *Mathematics Explained for Primary Teachers*, 6th edition.

# Chapter 13: Natural numbers: some key concepts

## Year 3

* Investigate the conditions required for a number to be odd or even and identify odd and even numbers

## Year 4

* Investigate and use the properties of odd and even numbers

## Year 5

* Identify and describe factors and multiples of whole numbers and use them to solve problems

## Year 6

* Identify and describe properties of prime, composite … numbers
* Identify and describe properties of … square and triangular numbers

## Year 7

* Represent whole numbers as products of powers of prime numbers
* Investigate and use square roots of perfect square numbers
* Investigate index notation