

BASIC FACT EXPECTATIONS

These are based on the latest NZ Curriculum

PHASE 1

By 6 months

Subtract and Addition in various ways up to 10
Subitise to 5

End of Year 1

Subitise to 10
Subtraction and Addition in various ways up to 20.
Start estimating to predict correct calculations
Fractions/Decimals: Knowing doubles and halves, and using them to add and subtract in equations up to 10
Find and show a half or quarters
Multiply & Divide using equal grouping or counting.

End of Year 2

Simple Subtraction and Addition in various ways up to 100.
Recall/automatic Subtraction & Addition up to 10.
Estimate to predict correct calculations.
Numbers up to 100: Identify the nearest 10
Fractions/Decimals: Knowing doubles and halves, and using them to add and subtract in equations up to 20
Find and show a half or quarters. Compare.
Explore Multiply & Divide 2, 5, 10 times tables.
Recognise NZ money

End of Year 3 – bold is new content

Subtraction and Addition in various ways up to 100
Recall/automatic Subtraction & Addition up to 20
Estimate to predict correct calculations.
Round numbers up to 1000
Fractions/Decimals: Find and show a half or quarters on a number line
Multiply & Divide 2, 3, 5, 10 (times tables - including division)
Multiply a one or 2 digit number by a one digit number using skip counting or known facts. e.g. 4×6 or 2×23
Recognise NZ money

PHASE 2

End of Year 4



Subtraction and Addition 2 and 3 digit numbers

Multiply & Divide 2, 3, 4, 5, 6, 10 (times tables - including division)

Scale: use doubling and halving to scale a quantity

Fractions/Decimals:

- Identify, read and write tenths as fractions and decimals and show them.
- Compare and order fractions and decimals
- Find equivalent fractions. **Start** using mixed and improper fractions.
- Add and subtract fractions and decimals
- Divide whole numbers by 10 to make decimals

NZ money: make various amounts. Estimate and calculate costs & change

End of Year 5 – bold is new to this level

Subtraction and Addition 2 and 3 digit numbers up to 1000

Multiply & Divide 2, 3, 4, 5, 6, 7, 8, 9, 10 (times tables - including division)

Multiply a 3 digit number by 1 or 2 digits. e.g. 356×7 or 989×8

Scale: use known multiplication facts to scale a quantity

Fractions/Decimals:

- Identify, read and write 10ths & **100ths** as fractions and decimals and show them.
- Compare and order fractions and decimals
- Find equivalent fractions. Use mixed and improper fractions.
- Add and subtract fractions and decimals
- Divide whole numbers by 10 **and 100** to make decimals

NZ money: Estimate and calculate costs & change

End of Year 6 – bold is new to this level

Subtraction and Addition ANY whole numbers

Multiply & Divide 2, 3, 4, 5, 6, 7, 8, 9, 10 (times tables - including division)

Multiply a 3 digit number by 1 or 2 digits. e.g. 356×7 or 989×8

Use BODMAS (order of operation use in equations)

Scale: use known multiplication & **division facts** to scale a quantity

Fractions/Decimals:

- Identify, read and write 10ths & **100ths** as fractions and decimals and show them.
- Compare and order fractions and decimals
- Find equivalent fractions. Use mixed and improper fractions.
- Add and subtract fractions and decimals
- **Multiply & Divide** whole numbers by 10 and 100 to make decimals

NZ money: Solve financial problems. Estimate and calculate percentages

PHASE 3

End of Year 7



Utilising all the Year 6 work and adding/building on the following:

Identify, read, write, compare, order: Powers of 10

Find Highest Common Factors and Least Common Multiples

Use exponents (powers) to show multiplication

Identify square roots and square numbers up to 100

Rounding and estimating to include decimals and powers

Divide whole numbers by 1 or 2 digit numbers. e.g. 327 divided by 5 = 65.4

Integers: order, compare and find on a number line. And explore adding and subtracting integers.

Fractions/Decimals/percentages:

- Multiply and divide numbers by 10, 100, and 1000.
- Add and subtract decimals
- Multiply decimals and fractions
- Work out percentages
- work with equivalent, improper, mixed fractions and fraction simplification.

NZ money:

- Calculate cost and change for any money amount
- Apply percentage discounts

End of Year 8

Utilising all the Year 7 work and adding/building on the following:

Use prime factorisation to represent a number and find the Highest Common Factors of 2 numbers

Identify and describe the properties of prime and composite numbers up to at least 100 and cube numbers up to at least 125

Divide whole numbers. e.g. 327 divided by 15 = 21.8 or 21 $\frac{2}{5}$

Integers: order, compare and find on a number line. And explore adding and subtracting integers.

Fractions/Decimals/percentages:

- use proportional reasoning to explore unequal proportions

NZ money: create and compare financial plans