NZ Curriculum Mapping: 2040 – Reducing Our Carbon Footprint – Maths and Science – Years 5 & 6

Mathematics and Statistics

Curriculum Level 2

Number and Algebra

Number strategies

* Know simple fractions in everyday use.

### Geometry and Measurement

Measurement

* Create and use appropriate units and devices to measure length, area, volume and capacity, weight (mass), turn (angle), temperature, and time.

Curriculum Level 3

Number and Algebra

Number Strategies

* Use a range of additive and simple multiplicative strategies with whole numbers, fractions, decimals, and percentages.

Number Knowledge

* Know basic multiplication and division facts.
* Know fractions and percentages in everyday use.

Equations and Expressions

* Record and interpret additive and simple multiplicative strategies, using words, diagrams, and symbols, with an understanding of equality.

Patterns and Relationships

* Connect members of sequential patterns with their ordinal position and use tables, graphs, and diagrams to find relationships between successive elements of number and spatial patterns.

### Geometry and Measurement

Measurement

* Use linear scales and whole numbers of metric units for length, area, volume and capacity, weight (mass), angle, temperature, and time.

Curriculum Level 4

Number and Algebra

Number Strategies and Knowledge

* Use a range of multiplicative strategies when operating on whole numbers.

Patterns and Relationships

* Generalise properties of multiplication and division with whole numbers.
* Use graphs, tables, and rules to describe linear relationships found in number and spatial patterns.

### Geometry and Measurement

Measurement

### Convert between metric units, using whole numbers and commonly used decimals.

### Statistics

Statistical Literacy

* Evaluate statements made by others about the findings of statistical investigations and probability activities.

# Science

## Curriculum Level 2

### Nature of Science

Communicating in Science

* Build their language and develop their understandings of the many ways the natural world can be represented.

Participating and Contributing

* Explore and act on issues and questions that link their science learning to their daily living.

### Material World

Properties and Changes of Matter

* Observe, describe, and compare physical and chemical properties of common materials and changes that occur when materials are mixed, heated, or cooled.

Chemistry and Society

* Find out about the uses of common materials and relate these to their observed properties.

## Curriculum Level 3

### Nature of Science

Communicating in Science

* Begin to use a range of scientific symbols, conventions, and vocabulary.

Participating and Contributing

* Use their growing science knowledge when considering issues of concern to them.
* Explore various aspects of an issue and make decisions about possible actions.

### Material World

Properties and Changes of Matter

* Group materials in different ways, based on the observations and measurements of the characteristic chemical and physical properties of a range of different materials.

Chemistry and Society

* Relate the observed, characteristic chemical and physical properties of a range of different materials to technological uses and natural processes.

## Curriculum Level 4

### Nature of Science

Communicating in Science

* Begin to use a range of scientific symbols, conventions, and vocabulary.

Participating and Contributing

* Use their growing science knowledge when considering issues of concern to them.
* Explore various aspects of an issue and make decisions about possible actions.