# New Zealand Curriculum Mapping: SugarByHalf – The Power of pH – Science – Years 9 & 10

# Science

## Curriculum Level 4

### Nature of Science

Investigating in Science

* Build on prior experiences, working together to share and examine their own and others’ knowledge.

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.
* Compare chemical and physical changes.

The Structure of Matter

* Begin to develop an understanding of the particle nature of matter and use this to explain observed changes.

## Curriculum Level 5

### Nature of Science

Participating and Contributing

* Develop an understanding of socio-scientific issues by gathering relevant scientific information in order to draw evidence-based conclusions and to take action where appropriate.

### Material World

Properties and Changes of Matter

* Investigate the chemical and physical properties of different groups of substances, for example, acids and bases, fuels, and metals.

## Curriculum Level 6

### Nature of Science

Participating and Contributing

* Develop an understanding of socio-scientific issues by gathering relevant scientific information in order to draw evidence-based conclusions and to take action where appropriate.

### Material World

Properties and Changes of Matter

* Identify patterns and trends in the properties of a range of groups of substances, for example, acids and bases, metals, metal compounds, and hydrocarbons.
* Explore factors that affect chemical processes.