# Australian Curriculum Mapping: 2040 – The Seaweed Solution – Maths – Years 7 & 8

## **Year 7 Mathematics**

* Connect fractions, decimals and percentages and carry out simple conversions ([ACMNA157](https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/?strand=Number+and+Algebra&strand=Measurement+and+Geometry&strand=Statistics+and+Probability&capability=ignore&priority=ignore&year=11758&elaborations=true&cd=ACMNA157&searchTerm=ACMNA157#dimension-content))
* Find percentages of quantities and express one quantity as a percentage of another, with and without digital technologies ([ACMNA158](https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/?strand=Number+and+Algebra&strand=Measurement+and+Geometry&strand=Statistics+and+Probability&capability=ignore&priority=ignore&year=11758&elaborations=true&cd=ACMNA158&searchTerm=ACMNA158#dimension-content))
* Recognise and solve problems involving simple ratios ([ACMNA173](https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/?strand=Number+and+Algebra&strand=Measurement+and+Geometry&strand=Statistics+and+Probability&capability=ignore&priority=ignore&year=11758&elaborations=true&cd=ACMNA173&searchTerm=ACMNA173#dimension-content))

## **Year 8 Mathematics**

* Solve problems involving the use of percentages, including percentage increases and decreases, with and without digital technologies ([ACMNA187](https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/?strand=Number+and+Algebra&strand=Measurement+and+Geometry&strand=Statistics+and+Probability&capability=ignore&priority=ignore&year=11759&elaborations=true&cd=ACMNA187&searchTerm=ACMNA187#dimension-content))
* Solve a range of problems involving rates and ratios, with and without digital technologies ([ACMNA188](https://www.australiancurriculum.edu.au/f-10-curriculum/mathematics/?strand=Number+and+Algebra&strand=Measurement+and+Geometry&strand=Statistics+and+Probability&capability=ignore&priority=ignore&year=11759&elaborations=true&cd=ACMNA188&searchTerm=ACMNA188#dimension-content))

## **Relevant parts of Year 7 achievement standards**

* Students solve problems involving percentages and all four operations with fractions and decimals. Students use fractions, decimals and percentages, and their equivalences. They express one quantity as a fraction or percentage of another.

## **Relevant parts of Year 8 achievement standards**

* Students solve everyday problems involving rates, ratios and percentages.

**Syllabus outcomes:**[MA4-1WM, MA4-2WM, MA4-3WM, MA4-5NA](https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/mathematics/mathematics-k-10/outcomes)

**General capabilities:**[Numeracy](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/), [Literacy](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/), [Critical and Creative Thinking](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/), [Information and Communications Technology](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/)

**Cross-curriculum priority:** [Sustainability](https://www.australiancurriculum.edu.au/f-10-curriculum/cross-curriculum-priorities/sustainability/)