# Australian Curriculum Mapping: 2040 – Girls For The Planet – Maths – Year 9

## **Year 9 Mathematics**

* Identify everyday questions and issues involving at least one numerical and at least one categorical variable, and collect data directly and from secondary sources ([ACMSP228](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=11760&elaborations=true&cd=ACMSP228&searchTerm=ACMSP228#dimension-content))
* Construct back-to-back stem-and-leaf plots and histograms and describe data, using terms including ‘skewed’, ‘symmetric’ and ‘bi modal’ ([ACMSP282](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=11760&elaborations=true&cd=ACMSP282&searchTerm=ACMSP282#dimension-content))
* Solve problems involving direct proportion. Explore the relationship between graphs and equations corresponding to simple rate problems ([ACMNA208](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=11760&elaborations=true&cd=ACMNA208&searchTerm=ACMNA208#dimension-content))

## **Relevant parts of Year 9 achievement standards**

* Students construct histograms and back-to-back stem-and-leaf plots

**Syllabus outcomes:** [MA5.1-1WM, MA5.1-2WM, MA5.1-3WM, MA5.2-2WM, MA5.2-3WM, MA5.3-4NA](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/numeracy/), [Literacy](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/literacy/), [Critical and Creative Thinking](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/critical-and-creative-thinking/), [Ethical Understanding](https://www.australiancurriculum.edu.au/f-10-curriculum/general-capabilities/ethical-understanding/)

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