# Australian Curriculum Mapping: 2040 – Energy and Sustainability – Science – Year 7 & 8

## **Year 7 Science**

* Some of Earth’s resources are renewable, including water that cycles through the environment, but others are non-renewable [(ACSSU116)](https://www.australiancurriculum.edu.au/f-10-curriculum/science/?strand=Science+Understanding&strand=Science+as+a+Human+Endeavour&strand=Science+Inquiry+Skills&capability=ignore&priority=ignore&year=12007&elaborations=true&cd=ACSSU116&searchTerm=ACSSU116#dimension-content)
* Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate [(ACSIS133)](https://www.australiancurriculum.edu.au/f-10-curriculum/science/?strand=Science+Understanding&strand=Science+as+a+Human+Endeavour&strand=Science+Inquiry+Skills&capability=ignore&priority=ignore&year=12007&elaborations=true&cd=ACSIS133&searchTerm=ACSIS133#dimension-content)

## **Year 8 Science**

* Solutions to contemporary issues that are found using science and technology, may impact on other areas of society and may involve ethical considerations [(ACSHE135)](https://www.australiancurriculum.edu.au/f-10-curriculum/science/?strand=Science+Understanding&strand=Science+as+a+Human+Endeavour&strand=Science+Inquiry+Skills&capability=ignore&priority=ignore&year=12008&elaborations=true&cd=ACSHE135&searchTerm=ACSHE135#dimension-content)
* Communicate ideas, findings and evidence based solutions to problems using scientific language, and representations, using digital technologies as appropriate [(ACSIS148)](https://www.australiancurriculum.edu.au/f-10-curriculum/science/?strand=Science+Understanding&strand=Science+as+a+Human+Endeavour&strand=Science+Inquiry+Skills&capability=ignore&priority=ignore&year=12008&elaborations=true&cd=ACSIS148&searchTerm=ACSIS148#dimension-content)

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

* Students analyse how the sustainable use of resources depends on the way they are formed and cycle through Earth systems. They communicate their ideas, methods and findings using scientific language and appropriate representations.

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

* Students explain how evidence has led to an improved understanding of a scientific idea, and use appropriate language and representations to communicate science ideas, methods and findings in a range of text types.

**Syllabus outcomes:**[SC4-12ES, SC4-9WS, SC4-11PW](http://syllabus.bostes.nsw.edu.au/science/science-k10/outcomes/)

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

**Cross-curriculum priority:** [Sustainability OI.6, OI.8](https://www.australiancurriculum.edu.au/f-10-curriculum/cross-curriculum-priorities/sustainability/)