 Material World

2012 Science and Technology K-6 Syllabus:

ME - Provides areas of focus for students to learn about technologies and their uses relevant to the personal, commercial and global areas of human activity. Students recognise that technology and understanding of design processes enable people to manage, interpret, shape and alter their environment to improve their quality of life.

S1-S3: Material World (MW) – students develop their understanding of the properties of materials, the way they behave and the changes they undergo as well as how these properties influence the way materials are used by people in objects, products, places and spaces.

Science and Technology K–6 Syllabus 2012  
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2017 Science and Technology K-6 Syllabus:

The Material World strand explores the characteristics and observable properties of substances and materials. Students explore how materials can be changed and combined. They explore change of state and investigate how chemicals can be combined and separated.

Students develop knowledge and understanding of the characteristics and properties of a range of materials in the development of projects. They build an awareness of the strengths and limitations of materials and integrate this knowledge into design decisions. Students develop an appreciation that the selection of materials and processes should be guided by informed consideration of ethical issues and the sustainability of resources.

[Science and Technology Syllabus K–6 Syllabus 2017](http://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/science/science-and-technology-k-6-new-syllabus)  
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| Stage | Outcome 2012 | 2012 Science and Technology K-6 Syllabus | Outcome 2017 | 2017 Science and Technology K-6 Syllabus | What is different? |
| --- | --- | --- | --- | --- | --- |
| Early stage 1 | Ste-9ME | identifies that objects are made of materials that have observable properties | STe4MW-ST | identifies that objects are made of materials that have observable properties |  |
| Stage 1 | St1-12MW  St1-13MW | identifies ways that everyday materials can be physically changed and combined for a particular purpose  relates the properties of common materials to their use for particular purposes | ST1-6MW-S  ST1-7MW-T | identifies that materials can be changed or combined  describes how the properties of materials determine their use |  |
| Stage 2 | St2-12MW  St2-13MW | identifies that adding of removing heat causes a change of state between solids and liquids  identifies the physical properties of natural and processed materials, and how these properties influence their use | ST2-6MW-S  ST2-7MW-T | describes how adding or removing heat causes a change of state  investigates the suitability of natural and processed materials for a range of purposes |  |
| Stage 3 | St3-12MW  St3-13MW | identifies the observable properties of solids, liquids and gases, and that changes made to materials are reversible or irreversible  describes how the properties of materials determine their use for specific purposes | ST3-6MW-S  ST3-7MW-T | explains the effect of heat on the properties and behaviour of materials  explains how the properties of materials determines their use for a range of purposes |  |