

Patterns and Algebra K-6

A developmental sequence of learning
: NSW Mathematics K–10 Syllabus for the Australian Curriculum

Number and
Algebra

Organisation of content in the NSW Mathematics K–10 Syllabus

Content in the *Mathematics K-10 Syllabus for the Australian Curriculum* (NESA, 2019; BOSNSW, 2018; BOSNSW, 2012) is presented as a continuum of learning in stages from Kindergarten to Year 10. Within each stage, the syllabus is organised into three content strands and further organised into **substrands** (many are separated into two parts '1' and '2') with the five components of Working Mathematically integrated into the strands.

The content presented for each substrand is developmentally sequenced from the top of each content page to the bottom and is organised as follows:

Flush to the left are the main concepts i.e. Australian Curriculum **content descriptions** with what I call the 'number plates'

- (1st indentation level): **knowledge and skills** i.e. 'what' is to be taught and learnt
- ▶ (2nd indentation level): **Working Mathematically** components i.e. 'how' content is explored or developed
- (3rd indentation level): **mental strategies** with examples of written recordings.

The language section of each substrand K-6 includes a word list. Words appearing for the first time in each substrand are listed in bold type.

Content page numbers	*2019 revised hard copy (the 'orange book')	*2018 revised soft copy (PDF)	2012 hard copy (the 'orange book')	2012 soft copy (PDF)
Strands and substrands diagram	36	35	32	35
Early Stage 1 (Kindergarten)	57 - 58	55 - 56	50	54 - 55
Stage 1, Part 1 (Year 1)	98 - 99	96 - 97	86 - 87	91 - 92
Stage 1, Part 2 (Year 2)	100 - 101	98 - 99	88 - 89	93 - 94
Stage 2, Part 1 (Year 3)	158 - 159	157 - 158	143 - 144	146 - 147
Stage 2, Part 2 (Year 4)	160 - 161	159 - 160	145 - 146	148 - 149
Stage 3, Part 1 (Year 5)	230 - 231	232 - 233	213 - 214	216 - 217
Stage 3, Part 2 (Year 6)	232 - 234	234 - 236	215 - 217	218 - 220

*inclusion of the National Numeracy Learning Progressions (NNLP's)

Teach directly from the online interactive version

Use an interactive touchscreen/board with an annotating tool so that you can write directly over all the lightbox images contained in the syllabus. Free access from the NESA website:

<https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/mathematics/mathematics-k-10/content>

Purchase hard copies of *Mathematics K–10 Syllabus Volume 1: K–6*

- online NESA shop (2019 revised version). \$28.90 + shipping
- University Co-Op (2012 version). \$28.90 with free shipping for orders over \$100.
<https://www.coop.com.au/nsw-mathematics-k-10-syllabus-volume-1-k-6/9781743010075>

Download soft copies (2012 revised version with NNLP's)

Free from the NESA website in both PDF and Word formats. Just scroll down to the pink square download buttons.

<https://educationstandards.nsw.edu.au/wps/portal/nesa/k-10/learning-areas/mathematics/mathematics-k-10>