Maths Builder e-Texts

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Maths Builder e-Texts for the Australian Curriculum

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Click on links to online worksheets, interactive games and other resources that ensure mastery of the content being covered.

Click here for abbreviations used in this document.

Year 3 Number and Algebra

 mathsbuilder.com.au/e-texts

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### Year 3: Number and Algebra

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**Assessment 4 (See website)**  Term test 4  Content and skills from NA, MG and SP are covered.

**Note:** All resources from the Teacher Resource Book are now available on the Maths Builder website. Click on the links above to go to the relevant worksheet and resources.
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### Suggested Timetable Year 3

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**Abbreviations**

- Whole Numbers: WN
- Addition and Subtraction: AS
- Multiplication and Division: MD
- Fractions and Decimals: FD
- Probability (Chance): P(C)
- Patterns and Algebra: PA
- Statistics (Data): S(D)
- Length: L
- Area: A
- Volume and Capacity: VC
- Mass: M
- Time: T
- 3D Space: 3DS
- 2D Space: 2DS
- Position (Direction and Coordinates): P
- Working Mathematically: WM

All resources from the Teacher Resource Book are now available on the Maths Builder website. Click on the links above to go to the relevant worksheet and resources.
The Australian Curriculum Mathematics content (Year 3 text)

The Australian Curriculum arranges the content of the Mathematics Syllabus in three sections; Number and Algebra, Measurement and Geometry and Statistics and Probability. The content covered in this book is listed here.

The relevant Content Descriptions and key resources have been placed at the bottom of each page.

Page 10: ACMNA058 (Y3 Fractions and decimals/S2 Fractions and decimals 1)
See also Maths Builder Fractions and Decimals 3:NA10C Fractions of regular 2D shapes.
Optional: Working Mathematically 2 (WM 3:02), Mentals 3 and 4 (WM 3:53M and WM 3:54M)

• This page addresses Australian Curriculum Mathematics, Number and Algebra, content description 058.
This is found in Year 3 Fractions and decimals in the Australian Curriculum and
Stage 2 Fractions and decimals 1 in the New South Wales Syllabus.

• The consolidation worksheet, Fractions and Decimals 3:NA10C (Fractions of regular 2D shapes) is found in the Maths Builder Year 3 e-Text on the homepage, or by going to the Fractions and Decimals section of Maths Builder.

• In the Number and Algebra section of this textbook, every 5th page shows a working mathematically worksheet (WM 3:02) and two mentals worksheets (WM 3:53M and WM 3:54M).
These form the basis of a homework program for the year and are reached through the Year 3 e-Text on the homepage or by going to the Working Mathematically section of Maths Builder.
Some additional content has been included to cover extra content introduced in New South Wales.

Number and Algebra

(ACMNA051) Investigate the conditions required for a number to be odd or even and identify odd and even numbers (page 4, 79)

(ACMNA052) Recognise, model, represent and order numbers to at least 10 000 (pages 3, 6, 27, 35, 53-58, 66-67, 73)

(ACMNA053) Apply place value to partition, rearrange and regroup numbers to at least 10 000 to assist calculations and solve problems (pages 28-29, 43-44, 53-58, 71-73)

(ACMNA054) Recognise and explain the connection between addition and subtraction (page 69)

(ACMNA055) Recall addition facts for single-digit numbers and related subtraction facts to develop increasingly efficient mental strategies for computation (pages 1-2, 20-22, 24, 30-33, 41-42, 45, 48-52, 59-61, 70, 74-75, 77, 153)

(ACMNA056) Recall multiplication facts of two, three, five and ten and related division facts (pages 7-8, 16-19, 34, 36, 63-64, 153)

(ACMNA057) Represent and solve problems involving multiplication using efficient mental and written strategies and appropriate digital technologies (pages 9, 36, 61, 76-78)

(ACMNA058) Model and represent unit fractions including 1/2, 1/4, 1/3, 1/5 and their multiples to a complete whole (pages 10-13, 25-26, 37-40)

(ACMNA059) Represent money values in multiple ways and count the change required for simple transactions to the nearest five cents (pages 23, 41-42, 45-47, 50)

(ACMNA060) Describe, continue, and create number patterns resulting from performing addition or subtraction (pages 5, 62, 65, 68, 79)

Additional content covered

S2 Fractions and Decimals (ACMNA078): Count by quarters, halves and thirds, including with mixed numerals. Locate and represent these fractions on a number line (pages 14-15, 37-40, 68)
Measurement and Geometry

(ACMMG061) Measure, order and compare objects using familiar metric units of length, mass and capacity (pages 82-83, 85, 90-91, 96-98, 102-104, 116, 126-129, 137)

(ACMMG062) Tell time to the minute and investigate the relationship between units of time (pages 80, 114-115, 119-121, 139)

(ACMMG063) Make models of three-dimensional objects and describe key features (pages 92-95, 112-113, 132-133)

(ACMMG064) Identify angles as measures of turn and compare angle sizes in everyday situations (pages 99-101, 138)

(ACMMG065) Create and interpret simple grid maps to show position and pathways (pages 88-89, 110-111, 124-125, 134)

(ACMMG066) Identify symmetry in the environment (pages 86, 122)

Additional content covered

S1 Time 2 (ACMMG039): Tell time to the quarter-hour using the language of ‘past’ and ‘to’ (page 81)

S1 Area 1: Recognise and use formal units to measure and estimate the areas of rectangles (pages 84, 105-106, 130-131, 135)

(ACMMG037) Compare and order several shapes and objects based on length, area, volume and capacity using appropriate uniform units (page 84, 105-106, 130-131, 135-136)

S2 Volume and Capacity 1 (ACMMG290): Compare objects using familiar metric units of volume (page 117-118)

S2 2D Space 1: Compare and describe features of two-dimensional shapes, including the special quadrilaterals (pages 87, 107-109, 123)

(ACMMG042) Describe and draw two-dimensional shapes, with and without digital technologies (pages 87, 107-109, 123)

Statistics and Probability

(ACMSP067) Conduct chance experiments, identify and describe possible outcomes and recognise variation in results (pages 143, 145, 150-152)

(ACMSP068) Identify questions or issues for categorical variables. Identify data sources and plan methods of data collection and recording (pages 146-147)

(ACMSP069) Collect data, organise into categories and create displays using lists, tables, picture graphs and simple column graphs, with and without the use of digital technologies (pages 141, 146-147, 149, 151, 153)

(ACMSP070) Interpret and compare data displays (pages 140-142, 144, 148)