# NELSON MATHS

## VICTORIAN CURRICULUM

# WESTERN AUSTRALIAN CURRICULUM CORRELATION CHART

## Years 5–6

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# NUMBER AND ALGEBRA

## NUMBER AND PLACE VALUE

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Identify and describe factors and multiples of whole numbers and use them to solve problems. (ACMNA098) | Year 5 Unit 3 |
| Use estimation and rounding to check the reasonableness of answers to calculations. (ACMNA099) | Year 5 Units 2, 6 |
| Solve problems involving multiplication of large numbers by one- or two-digit numbers using efficient mental, written strategies and appropriate digital technologies. (ACMNA100) | Year 5 Units 7, 10 |
| Solve problems involving division by a one-digit number, including those that result in a remainder. (ACMNA101) | Year 5 Unit 11 |
| Use efficient mental and written strategies and apply appropriate digital technologies to solve problems. (ACMNA291) | Year 5 Units 1, 13, 15 |

## FRACTIONS AND DECIMALS

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Compare and order common unit fractions and locate and represent them on a number line. (ACMNA102) | Year 5 Unit 17 |
| Investigate strategies to solve problems involving addition and subtraction of fractions with the same denominator. (ACMNA103) | Year 5 Units 23, 24 |
| Recognise that the place value system can be extended beyond hundredths. (ACMNA104) | Year 5 Unit 18 |
| Compare, order and represent decimals. (ACMNA105) | Year 5 Units 13, 18 |

## MONEY AND FINANCIAL MATHEMATICS

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Create simple financial plans. (ACMNA106) | Year 5 Unit 31 |

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# NUMBER AND ALGEBRA

## PATTERNS AND ALGEBRA

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Describe, continue and create patterns with fractions, decimals and whole numbers resulting from addition and subtraction. (ACMNA107) | Year 5 Units 21, 27 |
| Find unknown quantities in number sentences involving multiplication and division and identify equivalent number sentences involving multiplication and division. (ACMNA121) | Year 5 Unit 28 |

# MEASUREMENT AND GEOMETRY

## USING UNITS OF MEASUREMENT

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Choose appropriate units of measurement for length, area, volume, capacity and mass. (ACMMG108) | Year 5 Unit 4 (Length, Area, Volume), Year 5 Unit 5 (Mass and Capacity), Year 5 Unit 16 (Area) |
| Calculate perimeter and area of rectangles using familiar metric units. (ACMMG109) | Year 5 Unit 14 (Perimeter), Year 5 Unit 16 (Area of Rectangles) *Possible extension: Year 5 Unit 34 (Volume and Capacity of Prisms)* |
| Compare 12- and 24-hour time systems and convert between them. (ACMMG110) | Year 5 Units 25, 26 |

## SHAPE

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Connect three-dimensional objects with their nets and other two-dimensional representations. (ACMMG111) | Year 5 Units 8, 9 |

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# MEASUREMENT AND GEOMETRY

## LOCATION AND TRANSFORMATION

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Use a grid reference system to describe locations. Describe routes using landmarks and directional language. (ACMMG113) | Year 5 Unit 12 |
| Describe translations, reflections and rotations of two-dimensional shapes. Identify line and rotational symmetries. (ACMMG114) | Year 5 Units 32, 33 |
| Apply the enlargement transformation to familiar two dimensional shapes and explore the properties of the resulting image compared with the original. (ACMMG115) | Year 5 Unit 33 |

## GEOMETRIC REASONING

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Estimate, measure and compare angles using degrees. Construct angles using a protractor. (ACMMG112) | Year 5 Unit 22 |

# STATISTICS AND PROBABILITY

## CHANCE

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| List outcomes of chance experiments involving equally likely outcomes and represent probabilities of those outcomes using fractions. (ACMSP116) | Year 5 Unit 19 |
| Recognise that probabilities range from 0 to 1. (ACMSP117) | |

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# STATISTICS AND PROBABILITY

**DATA REPRESENTATION AND INTERPRETATION**

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Pose questions and collect categorical or numerical data by observation or survey. (ACMSP118) | Year 5 Unit 20 |
| Construct displays, including column graphs, dot plots and tables, appropriate for data type, with and without the use of digital technologies. (ACMSP119) | Year 5 Unit 29 |
| Describe and interpret different data sets in context. (ACMSP120) | Year 5 Unit 30 |

# LINKS TO WA DIGITAL TECHNOLOGIES CURRICULUM

**YEAR 5 DIGITAL TECHNOLOGIES: PROCESSES AND PRODUCTION SKILLS – DIGITAL IMPLEMENTATION**

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Design, follow and represent diagrammatically, a simple sequence of steps (algorithm) involving branching (decisions) and iteration (repetition). (ACTDIP019) | Year 5 Unit 35 (Number and Algebra; Patterns and Algebra) |

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# NUMBER AND ALGEBRA

## NUMBER AND PLACE VALUE

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
| --- | --- |
| Identify and describe properties of prime, composite, square and triangular numbers. (ACMNA122) | Year 6 Unit 6 (Prime Numbers), Year 6 Unit 7 (Composite Numbers) |
| Select and apply efficient mental and written strategies and appropriate digital technologies to solve problems involving all four operations with whole numbers. (ACMNA123) | Year 6 Units 2, 18 |
| Investigate everyday situations that use integers. Locate and represent these numbers on a number line. (ACMNA124) | Year 6 Units 3, 18 |

## FRACTIONS AND DECIMALS

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
| --- | --- |
| Compare fractions with related denominators and locate and represent them on a number line. (ACMNA125) | Year 6 Unit 17 |
| Solve problems involving addition and subtraction of fractions with the same or related denominators. (ACMNA126) | Year 6 Units 23, 24 |
| Find a simple fraction of a quantity where the result is a whole number, with and without digital technologies. (ACMNA127) | Year 6 Unit 27 |
| Add and subtract decimals, with and without digital technologies, and use estimation and rounding to check the reasonableness of answers. (ACMNA128) | Year 6 Unit 14 |
| Multiply decimals by whole numbers and perform divisions by non-zero whole numbers where the results are terminating decimals, with and without digital technologies. (ACMNA129) | Year 6 Unit 15 |
| Multiply and divide decimals by powers of 10. (ACMNA130) | |
| Make connections between equivalent fractions, decimals and percentages. (ACMNA131) | Year 6 Unit 28 |

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# NUMBER AND ALGEBRA

### MONEY AND FINANCIAL MATHEMATICS

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Investigate and calculate percentage discounts of 10%, 25% and 50% on sale items, with and without digital technologies. (ACMNA132) | Year 6 Unit 31 |

### PATTERNS AND ALGEBRA

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Continue and create sequences involving whole numbers, fractions and decimals.  Describe the rule used to create the sequence. (ACMNA133) | Year 6 Unit 21 |
| Explore the use of brackets and order of operations to write number sentences. (ACMNA134) | Year 6 Unit 1 |

# MEASUREMENT AND GEOMETRY

### USING UNITS OF MEASUREMENT

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Connect decimal representations to the metric system. (ACMMG135) | Year 6 Units 4, 12 |
| Convert between common metric units of length, mass and capacity. (ACMMG136) | Year 6 Unit 5 (Mass and Capacity), Year 6 Unit 16 (Volume and Capacity) |
| Solve problems involving the comparison of lengths and areas using appropriate units. (ACMMG137) | Year 6 Unit 4 (Area and Perimeter), Year 6 Unit 13 (Length and Area) |
| Connect volume and capacity and their units of measurement. (ACMMG138) | Year 6 Units 5, 16 |
| Interpret and use timetables. (ACMMG139) | Year 6 Units 25, 26 |

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# MEASUREMENT AND GEOMETRY

## SHAPE

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Construct simple prisms and pyramids. (ACMMG140) | Year 6 Units 8, 9 |

## LOCATION AND TRANSFORMATION

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Investigate combinations of translations, reflections and rotations, with and without the use of digital technologies. (ACMMG142) | Year 6 Unit 32 |
| Introduce the Cartesian coordinate system using all four quadrants. (ACMMG143) | Year 6 Units 10, 11 |

## GEOMETRIC REASONING

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles. (ACMMG141) | Year 6 Units 22, 23 |

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# STATISTICS AND PROBABILITY

## CHANCE

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Describe probabilities using fractions, decimals and percentages. (ACMSP144) | Year 6 Unit 19 |
| Conduct chance experiments with both small and large numbers of trials using appropriate digital technologies. (ACMSP145) | Year 6 Unit 20 |
| Compare observed frequencies across experiments with expected frequencies. (ACMSP146) | |

## DATA REPRESENTATION AND INTERPRETATION

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Interpret and compare a range of data displays, including side-by-side column graphs for two categorical variables. (ACMSP147) | Year 6 Unit 29 |
| Interpret secondary data presented in digital media and elsewhere. (ACMSP148) | Year 6 Unit 30 |

# LINKS TO WA DIGITAL TECHNOLOGIES CURRICULUM

## YEAR 6 DIGITAL TECHNOLOGIES: PROCESSES AND PRODUCTION SKILLS – DIGITAL IMPLEMENTATION

| WA Curriculum | Nelson Maths Victoria corresponding unit/s |
|---|---|
| Design, modify, follow and represent both diagrammatically and in written text, simple algorithms (a sequence of steps) involving branching (decisions) and iteration (repetition). (ACTDIP019) | Year 6 Unit 34 (Number and Algebra; Patterns and Algebra) |