

**Australian Curriculum
Mathematics Achievement Standards
Aligned to Math-U-See Scope and Sequence**

Aim

To provide teachers with a set of Achievement Standards based on the Australian Curriculum that align to the Math-U-See program. These can be used for formative and summative assessment.

Achievement Standards

The Australian Curriculum Achievement Standards have been sequenced to align to the content of the Math-U-See scope and sequence (meaning what topics are covered in each year level).

Assessment

Teachers assess students on the Math-U-See content taught using the following Achievement Standards.

Code

The school developed codes that have been assigned to each phrase of the Australian Curriculum Mathematics Achievement Standards Years F-6.

The code identifies: Subject, Strand, Year level and where the phase is located in the Australian Curriculum Achievement Standard

Example:

MNA.3.2 : This phase comes from the Australian Curriculum Achievement Standard in **Maths - Number & Algebra - Year 3 -Phase 2**

MUS – PRIMER LEVEL

Year Foundation Mathematics	
Code	Achievement Standard
Number and Algebra	MNA.F.1 Students make connections between number names, numerals and quantities up to 10 MNA.1.3 They recognise Australian coins according to their value MNA.F.6 Students count to and from 20 and order small collections
Measurement and Geometry	MMG.F.2 They compare objects using mass, length and capacity MMG.F.7 They group objects based on common characteristics and sort shapes and objects MMG.1.12 They tell time to the half-hour
Statistics and Probability	
Gaps to be filled with other resources	Achievement Standard not covered by MUS MMG.F.3 Students connect events and the days of the week MMG.F.4 They explain the order and duration of events MMG.F.5 They use appropriate language to describe location MSP.F.8 Students answer simple questions to collect information and make simple inferences

MUS - ALPHA LEVEL

Year 1 Mathematics	
Code	Achievement Standard
Number and Algebra	MNA.1.1 Students describe number sequences resulting from skip counting by 2s, 5s and 10s MNA.1.7 Students count to and from 100 and locate numbers on a number line MNA.1.8a They carry out simple additions and subtractions using counting strategies MNA.1.8b They carry out simple additions and subtractions using counting strategies MNA.1.9 They partition numbers using place value
Measurement and Geometry	MMG.1.5a They describe two-dimensional shapes and three-dimensional objects MMG.1.5b They describe two-dimensional shapes and three-dimensional objects
Statistics and Probability	
Gaps to be filled with other resources	Achievement Standard not covered by MUS MMG.1.13 They use the language of direction to move from place to place MSP.1.6 Students describe data displays MSP.1.14 Students classify outcomes of simple familiar events MSP.1.15a They collect data by asking questions, draw simple data displays and make simple inferences MSP.1.15b They collect data by asking questions, draw simple data displays and make simple inferences MSP.1.15c They collect data by asking questions, draw simple data displays and make simple inferences

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MUS - BETA LEVEL

Year 2 Mathematics	
Code	Achievement Standard
Number and Algebra	<p>MNA.1.10a They continue simple patterns involving numbers</p> <p>MNA.1.10b They continue simple patterns involving objects</p> <p>MNA.2.1 Students recognise increasing and decreasing number sequences involving 2s, 3s and 5s MNA.2.3</p> <p>They associate collections of Australian coins with their value</p> <p>MNA.2.4 Students identify the missing element in a number sequence</p> <p>MNA.2.8 Students count to and from 1000</p> <p>MNA.2.9 They perform simple addition and subtraction calculations using a range of strategies MNA.3.8</p> <p>Students count to and from 10 000</p> <p>MNA.3.9 They classify numbers as either odd or even</p> <p>MNA.3.11 Students correctly count out change from financial transactions</p>
Measurement and Geometry	<p>MMG.1.4 Students explain time durations</p> <p>MMG.1.11a Students order objects based on lengths using informal units</p> <p>MMG.1.11b Students order objects based on capacities using informal units</p> <p>MMG.2.12a They tell time to the quarter-hour</p> <p>MMG.2.12b They use a calendar to identify the date and the months included in seasons</p> <p>MMG.3.14 They tell time to the nearest minute</p> <p>MMG.4.16 They convert between units of time</p>
Statistics and Probability	<p>MSP.2.15 Students collect, organise and represent data to make simple inferences</p> <p>MSP.3.7 They interpret and compare data displays</p> <p>MSP.3.17 They conduct simple data investigations for categorical variables</p>
Gaps to be filled with other resources	<p>Gaps</p> <p>MMG.2.5 Students recognise the features of three-dimensional objects</p> <p>MMG.2.6 They interpret simple maps of familiar locations</p> <p>MMG.2.7 They explain the effects of one-step transformations. Students make sense of collected information</p> <p>MMG.2.11 Students order shapes and objects using informal units</p> <p>MSP.2.14 They describe outcomes for everyday events</p>

MUS - GAMMA LEVEL

Year 3 Mathematics	
Code	Achievement Standard
Number and Algebra	<p>MNA.2.2 They represent multiplication and division by grouping into sets</p> <p>MNA.3.1a Students recognise the connection between addition and subtraction</p> <p>MNA.3.1b Students solve problems using efficient strategies for multiplication MNA.3.3</p> <p>They represent money values in various ways</p> <p>MNA.3.12 They continue number patterns involving addition and subtraction</p> <p>MNA.4.5 They describe number patterns resulting from multiplication</p> <p>MNA.4.11 Students use the properties of odd and even numbers</p> <p>MNA.5.2 They check the reasonableness of answers using estimation and rounding</p>
Measurement and Geometry	<p>MMG.2.13 They draw two-dimensional shapes</p> <p>MMG.3.10a They recall addition facts for single-digit numbers</p> <p>MMG.3.10b They recall multiplication facts for single-digit numbers</p> <p>MMG.3.13 Students use metric units for length, mass and capacity</p> <p>MMG.4.6 Students compare areas of regular and irregular shapes using informal units</p> <p>MMG.4.14 They continue number sequences involving multiples of single digit numbers</p>
Statistics and Probability	
Gaps to be filled with other resources	<p>Achievement Standard not covered by MUS</p> <p>MMG.3.4 Students identify symmetry in the environment</p> <p>MMG.3.5 They match positions on maps with given information</p> <p>MMG.3.15 Students make models of three-dimensional objects</p> <p>MSP.3.16 Students conduct chance experiments and list possible outcomes</p>

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MUS - DELTA LEVEL

Year 4 Mathematics	
Code	Achievement Standard
Number and Algebra	<p>MNA.1.2 They identify representations of one half</p> <p>MNA.2.10 They divide collections and shapes into halves, quarters and eighths</p> <p>MNA.3.2 They model and represent unit fractions</p> <p>MNA.4.1a Students choose appropriate strategies for calculations involving multiplication</p> <p>MNA.4.1b Students choose appropriate strategies for calculations involving division</p> <p>MNA.4.12 They recall multiplication facts to 10 x 10 and related division facts</p> <p>MNA.4.13 Students locate familiar fractions on a number line</p> <p>MNA.5.1 Students solve simple problems involving the four operations using a range of strategies</p> <p>MNA.5.4 They identify and explain strategies for finding unknown quantities in number sentences involving the four operations</p> <p>MNA.6.3 They solve problems involving all four operations with whole numbers</p>
Measurement and Geometry	
Statistics and Probability	
Gaps to be filled with other resources	<p>Achievement Standard not covered by MUS</p> <p>MNA.4.9 Students identify dependent and independent events</p> <p>MMG.4.7 They solve problems involving time duration</p> <p>MMG.4.8 They interpret information contained in maps</p> <p>MMG.4.17 Students create symmetrical shapes and patterns</p> <p>MSP.4.10 They describe different methods for data collection and representation, and evaluate their effectiveness</p> <p>MSP.4.20 They construct data displays from given or collected data</p>

MUS - EPSILON LEVEL

Year 5 Mathematics	
Code	Achievement Standard
Number and Algebra	<p>MNA.4.2 They recognise common equivalent fractions in familiar contexts and make connections between fraction and decimal notations up to two decimal places</p> <p>MNA.4.4 They identify and explain strategies for finding unknown quantities in number sentences</p> <p>MNA.5.3 Students identify and describe factors and multiples</p> <p>MNA.5.9 Students order decimals and unit fractions and locate them on number lines</p> <p>MNA.5.10 They add and subtract fractions with the same denominator</p> <p>MNA.6.4 Students connect fractions, decimals and percentages as different representations of the same number</p>
Measurement and Geometry	<p>MMG.4.15 Students use scaled instruments to measure temperatures, lengths, shapes and objects</p>
Statistics and Probability	
Gaps to be filled with other resources	<p>Achievement Standard not covered by MUS</p> <p>MNA.5.5 They explain plans for simple budgets</p> <p>MMG.5.6 Students connect three-dimensional objects with their two-dimensional representations</p> <p>MMG.5.7 They describe transformations of two-dimensional shapes and identify line and rotational symmetry</p> <p>MMG.5.12 They use appropriate units of measurement for length, area, volume, capacity and mass, and calculate perimeter and area of rectangles</p> <p>MMG.5.13 They convert between 12- and 24-hour time</p> <p>MMG.5.14 Students use a grid reference system to locate landmarks</p> <p>MSP.5.17 Students pose questions to gather data, and construct data displays appropriate for the data</p>

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MUS - ZETA LEVEL

Year 6 Mathematics	
Code	Achievement Standard
Number and Algebra	<p>MNA.4.3 Students solve simple purchasing problems</p> <p>MNA.5.11 Students continue patterns by adding and subtracting fractions and decimals</p> <p>MNA.6.1 Students recognise the properties of prime, composite, square and triangular numbers</p> <p>MNA.6.2 They describe the use of integers in everyday contexts</p> <p>MNA.6.5 They solve problems involving the addition and subtraction of related fractions</p> <p>MNA.6.6 Students make connections between the powers of 10 and the multiplication and division of decimals</p> <p>MNA.6.7 They describe rules used in sequences involving whole numbers, fractions and decimals</p> <p>MNA.6.16 Students locate fractions and integers on a number line</p> <p>MNA.6.17 They calculate a simple fraction of a quantity</p> <p>MNA.6.18 They add, subtract and multiply decimals and divide decimals where the result is rational</p> <p>MNA.6.19 Students calculate common percentage discounts on sale items</p>
Measurement and Geometry	<p>MMG.3.6 Students recognise angles in real situations</p> <p>MMG.4.18 They classify angles in relation to a right angle</p> <p>MMG.5.15 They measure and construct different angles</p> <p>MMG.6.8 Students connect decimal representations to the metric system and choose appropriate units of measurement to perform a calculation</p> <p>MMG.6.9 They make connections between capacity and volume. They solve problems involving length and area</p> <p>MMG.6.12 They solve problems using the properties of angles</p>
Statistics and Probability	<p>MSP.4.19 Students list the probabilities of everyday events</p> <p>MSP.5.16 Students list outcomes of chance experiments with equally likely outcomes and assign probabilities between 0 and 1</p> <p>MSP.6.13 Students compare observed and expected frequencies</p> <p>MSP.6.14 They interpret and compare a variety of data displays including those displays for two categorical variables</p> <p>MSP.6.15 They interpret secondary data displayed in the media</p> <p>MSP.6.23 Students describe probabilities using simple fractions, decimals and percentages</p>
Gaps to be filled with other resources	<p style="color: orange;">Achievement Standard not covered by MUS</p> <p>MNA.6.10 They interpret timetables</p> <p>MNA.6.20 They write correct number sentences using brackets and order of operations</p> <p>MMG.6.11 Students describe combinations of transformations</p> <p>MMG.6.21 Students locate an ordered pair in any one of the four quadrants on the Cartesian plane</p> <p>MMG.6.22 They construct simple prisms and pyramids</p>