## Year 4: Mathematics

| Key | same/refined | removed | new |
| :--- | :---: | :---: | :---: |
| - moved |  |  |  |
| Note: |  |  |  |
| - the key applies to the content descriptions only |  |  |  |
| - v8.4 content descriptions may have been reordered to align with v9.0 content descriptions |  |  |  |

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| $\quad$ Version 8.4 |  |
| :--- | :--- | :--- |
| Achievement standard | Version 9.0 |


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| Version 8.4 |  | Version 9.0 |  |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathbb{0} 0 \\ & \text { @ } \\ & \frac{0}{\mathbb{Z}} \end{aligned}$ | find unknown quantities in number sentences involving addition and subtraction and identify equivalent number sentences involving addition and subtraction ACMNA083 | find unknown values in numerical equations involving addition and subtraction, using the properties of numbers and operations AC9M4A01 | $\begin{aligned} & \frac{\pi}{0} \\ & \frac{0}{0} \\ & \frac{0}{4} \end{aligned}$ |
|  | recall multiplication facts up to $10 \times 10$ and related division facts ACMNA075 | recall and demonstrate proficiency with multiplication facts up to 10 x 10 and related division facts; extend and apply facts to develop efficient mental strategies for computation with larger numbers without a calculator AC9M4A02 |  |
|  | investigate number sequences involving multiples of $3,4,6,7,8$, and 9 ACMNA074 |  |  |
|  | use scaled instruments to measure and compare lengths, masses, capacities and temperatures ACMMG084 | interpret unmarked and partial units when measuring and comparing attributes of length, mass, capacity, duration and temperature, using scaled and digital instruments and appropriate units AC9M4M01 |  |
|  | compare the areas of regular and irregular shapes by informal means ACMMG087 | recognise ways of measuring and approximating the perimeter and area of shapes and enclosed spaces, using appropriate formal and informal units AC9M4M02 |  |
|  | convert between units of time ACMMG085 | solve problems involving the duration of time including situations involving "am" and "pm" and conversions between units of time AC9M4M03 |  |
|  | use 'am' and 'pm' notation and solve simple time problems ACMMG086 Moved to Year 3 |  |  |
|  | compare angles and classify them as equal to, greater than, or less than, a right angle ACMMG089 Moved to Year 3 | estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle AC9M4M04 Moved from Year 5 |  |
| Z <br>  <br> 0 <br> 0 <br> 0 | compare and describe two dimensional shapes that result from combining and splitting common shapes, with and without the use of digital technologies ACMMG088 | represent and approximate composite shapes and objects in the environment, using combinations of familiar shapes and objects AC9M4SP01 |  |
|  | use simple scales, legends and directions to interpret information contained in basic maps ACMMG090 | create and interpret grid reference systems using grid references and directions to locate and describe positions and pathways AC9M4SP02 |  |
|  | create symmetrical patterns, pictures and shapes with and without digital technologies ACMMG091 | recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometric software where appropriate AC9M4SP03 Moved from Year 3 and from Year 5 |  |
|  | compare objects using familiar metric units of area and volume ACMMG290 |  |  |
| 000000 | construct suitable data displays, with and without the use of digital technologies, from given or collected data. Include tables, column graphs and picture graphs where one picture can represent many data values ACMSP096 | acquire data for categorical and discrete numerical variables to address a question of interest or purpose using digital tools; represent data using many-to-one pictographs, column graphs and other displays or visualisations; interpret and discuss the information that has been created AC9M4ST01 | 00000 |
|  | evaluate the effectiveness of different displays in illustrating data features including variability ACMSP097 | analyse the effectiveness of different displays or visualisations in illustrating and comparing data distributions, then discuss the shape of distributions and the variation in the data AC9M4ST02 |  |
|  | select and trial methods for data collection, including survey questions and recording sheets ACMSP095 | conduct statistical investigations, collecting data through survey responses and other methods; record and display data using digital tools; interpret the data and communicate the results AC9M4ST03 |  |
|  | describe possible everyday events and order their chances of occurring ACMSP092 | describe possible everyday events and the possible outcomes of chance experiments and order outcomes or events based on their likelihood of occurring; identify independent or dependent events AC9M4P01 |  |
|  | identify everyday events where one cannot happen if the other happens ACMSP093 |  |  |
|  | identify events where the chance of one will not be affected by the occurrence of the other ACMSP094 |  |  |
|  |  | conduct repeated chance experiments to oobserve relationships between outcomes; identify and describe the variation in results AC9M4P02 |  |

## Considerations for planning for the first year of implementation

In the initial year of implementing the Australian Curriculum: Mathematics v9.0, teachers need to consider the implications of content changes as they transition from v8.4.

The table below:

- identifies changes between v8.4 and v9.0 that may influence the sequence of students' learning
- outlines considerations for planning teaching and learning programs for the first year of implementation.

| Year 3 content in v8.4 | Year 4 content in v9.0 |  |
| :--- | :--- | :--- |
| investigate and use the properties of <br> odd and even numbers ACMNA071 | explain and use the properties of odd <br> and even numbers AC9M4NO2 Moved <br> from Year 3 |  |

[^0]| Year 3 content in v8.4 | Year 4 content in v9.0 | Considerations |
| :---: | :---: | :---: |
| represent money values in multiple ways and count the change required for simple transactions to the nearest five cents ACMNA059 | use mathematical modelling to solve practical problems involving additive and multiplicative situations including financial contexts; formulate the problems using number sentences and choose efficient calculation strategies, using digital tools where appropriate; interpret and communicate solutions in terms of the situation AC9M4N08 | In v9.0 financial contexts need to be provided for mathematical modelling. Students need to understand the language, processes, concepts and relationships relevant to the selected context. For example, a transaction in a shop requires an understanding of language and concepts such as shopkeeper/vendor, purchaser, cost, price, total amount, receipt, exchange of money and change. |
| use 'am' and 'pm' notation and solve simple time problems ACMMG086 | solve problems involving the duration of time including situations involving "am" and "pm" and conversions between units of time AC9M4M03 Moved from Year 3 | Using 'am' and ' pm ' notation and solving simple time problems was content in Year 3 v8.4. This content has moved to Year 4 v9.0. Teaching and learning programs should provide opportunities for students to revise and consolidate conceptual understanding. |
| identify angles as measures of turn and compare angle sizes in everyday situations ACMMG064 | estimate and compare angles using angle names including acute, obtuse, straight angle, reflex and revolution, and recognise their relationship to a right angle AC9M4M04 Moved from Year 5 | The following Year 5 v 8.4 content description has been moved to Year 4 v 9.0 . Estimate, measure and compare angles using degrees. Construct angles using a protractor ACMMG112 <br> In v9.0, Year 4 students transition from identifying angles as measures of turn and comparing angle sizes in everyday situations to estimating, measuring and comparing angles using angle names and recognising their relationship to a right angle. This is an increase in complexity, especially since students have not been exposed to the Year 4 content description v8.4: <br> Compare angles and classify them as equal to, greater than, or less than, a right angle ACMMG089 <br> Teaching and learning programs should provide opportunities for students to compare angles and classify them as equal to, greater than, or less than, a right angle before extending students' knowledge and skills to estimating, measuring and comparing angles using angle names and recognising their relationship to a right angle. |
| identify symmetry in the environment ACMMG066 | recognise line and rotational symmetry of shapes and create symmetrical patterns and pictures, using dynamic geometric software where appropriate AC9M4SP03 Moved from Year 3 | Identifying symmetry in the environment was content included in Year 3 v8.4. As this content has moved to Year 4 v 9.0 , teaching and learning programs should provide opportunities for students to revise and consolidate conceptual understanding. |

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[^0]:    Considerations
    Investigating and using the properties of odd and even numbers was content included in Year 3 v.8.4. As this content has moved to Year 4 v9.0, teaching and learning programs should provide opportunities for students to revise and consolidate conceptual understanding

