

Australian Curriculum - Proficiency Strands Flow from Foundation to Year 2

YEAR LEVEL DESCRIPTION

THE PROFICIENCY STRANDS *UNDERSTANDING, FLUENCY, PROBLEM SOLVING AND REASONING* are an integral part of mathematics content across the three content strands: *Number and Algebra*, *Measurement and Geometry*, and *Statistics and Probability*. The proficiencies reinforce the significance of working mathematically within the content and describe how the content is explored or developed. They provide the language to build in the developmental aspects of the learning of mathematics.

Foundation Year	Year 1	Year 2
Understanding	Understanding	Understanding
<i>includes connecting names, numerals and quantities</i>	<i>includes connecting names, numerals and quantities, and partitioning numbers in various ways</i>	<i>includes connecting number calculations with counting sequences, partitioning and combining numbers flexibly, identifying and describing the relationship between addition and subtraction and between multiplication and division</i>
Fluency	Fluency	Fluency
<i>includes readily counting numbers in sequences, continuing patterns, and comparing the lengths of objects</i>	<i>includes counting number in sequences readily forward and backwards, locating numbers on a line, and naming the days of the week</i>	<i>includes counting numbers in sequences readily, using informal units iteratively to compare measurements, using the language of chance to describe outcomes of familiar chance events and describing and comparing time durations</i>
Problem Solving	Problem Solving	Problem Solving
<i>includes using materials to model authentic problems, sorting objects, using familiar counting sequences to solve unfamiliar problems, and discussing the reasonableness of the answer</i>	<i>includes using materials to model authentic problems, giving and receiving directions to unfamiliar places, and using familiar counting sequences to solve unfamiliar problems and discussing the reasonableness of the answer</i>	<i>includes formulating problems from authentic situations, making models and using number sentences that represent problem situations, and matching transformations with their original shape</i>
Reasoning	Reasoning	Reasoning
<i>includes explaining comparisons of quantities, creating patterns, and explaining processes for indirect comparison of length</i>	<i>includes explaining direct and indirect comparisons of length using uniform informal units, justifying representations of data, and explaining patterns that have been created</i>	<i>includes using known facts to derive strategies for unfamiliar calculations, comparing and contrasting related models of operations, and creating and interpreting simple representations of data</i>