

# Cognitive verbs in the P–10 Australian Curriculum: Mathematics

## Overview

Key	
<b>AS</b>	Achievement standard
<b>CD</b>	Content description

The table below shows how the most common cognitive verbs across the Australian Curriculum are used in Mathematics, along with other cognitive verbs (italicised) that are particularly important to student thinking in this subject. The cognitive verbs are categorised using Marzano and Kendall's (2007) four levels of cognitive process: retrieval, comprehension, analysis and knowledge utilisation. For the full list of common cognitive verbs, refer to the *Categories of common cognitive verbs* at [www.qcaa.qld.edu.au](http://www.qcaa.qld.edu.au).

Cognitive process <sup>1</sup>	Cognitive verb	Prep (Foundation)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 10A	
Knowledge utilisation	<i>Assign</i>						AS		AS, CD		AS, CD	AS, CD		
	<i>Construct</i>					AS, CD	AS, CD	AS, CD	AS, CD		AS, CD	CD		
	<i>Convert</i>					AS, CD	AS, CD	CD		AS, CD				
	Create	CD		CD	CD	AS, CD	CD	CD	CD					
	Conduct				AS, CD			CD						
	Decide	CD												
	Develop					CD				CD	CD			
	Evaluate					AS, CD			AS, CD			AS, CD		
	<i>Explore</i>			CD	CD	CD	CD	CD	CD	CD	CD	CD	CD	
	Investigate		CD	CD	CD	CD	CD	CD	CD	CD	CD	CD	CD	CD
	Solve		CD	CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	CD
Analysis	Analyse								CD					
	Apply				CD	CD	CD	CD	CD	AS, CD	AS, CD	AS, CD	CD	
	Classify	CD	AS, CD	CD	AS	AS, CD			AS, CD					
	Compare	AS, CD	CD	CD	AS, CD	AS, CD	CD	AS, CD	AS, CD		AS, CD	AS, CD	CD	
	Connect	AS, CD				AS, CD	AS, CD	AS, CD	AS, CD	AS		AS, CD		
	Determine			CD					AS, CD	AS	CD	CD		
	<i>Group</i>	AS		AS, CD	CD	CD								
	Infer	AS, CD	AS, CD	AS										
	Interpret			AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD		AS	CD	CD	

Cognitive process <sup>1</sup>	Cognitive verb	Prep (Foundation)	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Year 10A
Comprehension	Describe	AS, CD	AS, CD	AS, CD	CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS	AS, CD	CD
	Explain	AS, CD	AS	AS	CD	AS	AS			AS	AS, CD		
	Model	CD	CD	CD	AS, CD				AS	AS			
	Order	AS, CD	AS, CD	AS, CD	CD	CD	AS, CD		CD				
	Represent	CD	CD	AS, CD	AS, CD	CD	CD	CD	AS, CD	CD			
Retrieval	Calculate						AS, CD	AS, CD	AS, CD	AS	AS, CD	AS	CD
	Identify		AS	AS, CD	AS, CD	AS	AS, CD	CD	CD				
	Name	CD		CD					AS	AS			
	Recall				AS, CD	AS, CD							
	Recognise		AS, CD	AS, CD	AS, CD	AS, CD	CD	AS	CD		AS	AS	
	Select					CD		CD					
	Use	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD	AS, CD

<sup>1</sup> Kendall, J & Marzano, R 2007, *The New Taxonomy of Educational Objectives*, Corwin Press, Thousand Oaks, CA.