

# Cognition mapping — Technologies

## Year 10 successful transition

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This resource identifies the cognitive verbs that are evident in the Years 9–10 Australian Curriculum, and the dimensions and objectives of the QCAA General and Applied senior syllabuses.

## Retrieval and comprehension

The activation and transfer of knowledge from permanent memory to working memory, and the storage of critical information in permanent memory

## Processes

Recognising, recalling, executing, integrating, symbolising

Cognitive verb	Australian Curriculum Years 9–10		General senior syllabus objectives (including explanatory paragraphs)					Applied senior syllabus dimensions and objectives							
	Achievement standards	Content descriptions	Aerospace Systems	Design	Digital Solutions	Engineering	Food & Nutrition	Building and Construction Skills	Engineering Skills	Fashion	Furnishing Skills	Hospitality Practices	Industrial Graphics Skills	Industrial Technology Skills	Information and Communication Technology Skills
calculate								✓	✓		✓		✓	✓	
construct													✓		
demonstrate								✓	✓	✓	✓		✓	✓	
describe	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
explain	✓	✓	✓		✓	✓	✓			✓		✓			✓
identify			✓	✓	✓	✓	✓			✓					✓
implement	✓	✓													
recall			✓		✓	✓	✓								
recognise		✓	✓		✓	✓	✓								
select	✓	✓						✓	✓		✓		✓	✓	
symbolise			✓		✓	✓	✓								
use	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

# Analytical processes

Involves the reasoned extension of knowledge

## Processes

Matching, classifying, analysing error, generalising, specifying

Cognitive verb	Australian Curriculum Years 9–10		General senior syllabus objectives (including explanatory paragraphs)					Applied senior syllabus dimensions and objectives							
	Achievement standards	Content descriptions	Aerospace Systems	Design	Digital Solutions	Engineering	Food & Nutrition	Building and Construction Skills	Engineering Skills	Fashion	Furnishing Skills	Hospitality Practices	Industrial Graphics Skills	Industrial Technology Skills	Information and Communication Technology Skills
analyse		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
apply	✓	✓						✓	✓	✓	✓	✓	✓	✓	✓
consider	✓	✓	✓			✓		✓	✓		✓		✓	✓	
critique	✓	✓													
deduce							✓								
determine			✓		✓	✓	✓	✓	✓		✓		✓	✓	
differentiate				✓											
identify errors/problems	✓		✓	✓		✓									
interpret			✓			✓		✓	✓	✓	✓		✓	✓	
judge		✓		✓											
organise/sequence/structure								✓	✓		✓		✓	✓	

# Knowledge utilisation

About using knowledge — involves the processes individuals use when they wish to accomplish a specific task

## Processes

Decision-making, problem-solving, experimental inquiry, investigating

Cognitive verb	Australian Curriculum Years 9–10		General senior syllabus objectives (including explanatory paragraphs)					Applied senior syllabus dimensions and objectives							
	Achievement standards	Content descriptions	Aerospace Systems	Design	Digital Solutions	Engineering	Food & Nutrition	Building and Construction Skills	Engineering Skills	Fashion	Furnishing Skills	Hospitality Practices	Industrial Graphics Skills	Industrial Technology Skills	Information and Communication Technology Skills
appraise			✓		✓										
assess			✓		✓	✓	✓								
create	✓	✓			✓		✓	✓	✓	✓	✓		✓	✓	
decide/determine			✓	✓	✓	✓	✓								
design	✓	✓		✓	✓					✓					
develop		✓					✓								
devise				✓			✓	✓	✓		✓		✓	✓	
evaluate	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
experiment/test					✓	✓									
generate/test			✓		✓	✓	✓	✓	✓		✓		✓	✓	
hypothesise/propose			✓	✓											
investigate/examine		✓		✓	✓	✓	✓								
justify/prove	✓	✓	✓		✓	✓	✓								
make decisions			✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	
modify		✓													
predict						✓	✓								