



Checked by School E	eader/ Key Stage Leader	Name/ Signature/ Date:	
Checked by Visible L	earning Coach	Name/Signature/Date:	
Monitoring	The school is required to regularly monitor the delivery of this Vertical Skills Progression Map. The school must complete an annual review of School Vertical Progression Map to check the implementation of curriculum documentation. Ongoing monitoring of planning, learning evidence and pupil knowledge will take place as part of good practice by subject and school lear Information from monitoring will be used to inform in school/Trust CPD Subject Training.		
Definition and Guidance	What does metacognition mean?		
	<ul> <li>The prefix 'meta' means 'about' the thing itself. So, metacognition is 'cognition about cognition', or 'thinking about one's thinking'. It is ofter considered to have two dimensions: metacognitive knowledge and metacognitive regulation.</li> <li>Metacognitive knowledge includes the learner's knowledge of their own cognitive abilities (e.g. I have trouble remembering dates), the learner knowledge of the nature of particular tasks (e.g. the ideas in this article are complex), and the learner's knowledge of different strategies includir when to use these strategies (e.g. if I break telephone numbers into chunks I will remember them) (Brown, 1987; Flavell, 1979).</li> <li>Metacognitive regulation describes how learners monitor and control their cognitive processes. For example, realising that the strategy they arusing to solve a mathematical problem is not working and trying another approach (Nelson &amp; Narens, 1990). For example, a learner might realis that a particular strategy is not achieving the results they want, so they decide to try a different strategy.</li> </ul>		
	Metacognition describes the processes involved when learners plan, monitor, evaluate and make changes to their own learning behaviours. The Progression Materials are divided into three key areas: Planning, Monitoring and Evaluation. Throughout learners are encouraged to self-reflect <b>Reflection</b> is a fundamental part of the plan-monitor-evaluate process. Encouraging learners to self-question throughout the process will support this reflection.		



An Daras Trust

Visible Learning<sup>plus</sup> Partner School

For example, in the context of an Art activity: Reference: EEF\_Metacognition\_and\_self-regulated\_learning.pdf

'What resources do I need to carry out a self-portrait?'

'Have I done a self-portrait before and was it successful?'

'What have I learned from the examples we looked at earlier?'

'Where do I start and what viewpoint will I use?'

'What recourses may I need to keep my features in proportion?'

Inquiring - identifying, exploring and organising information and ideas

Learners pose questions and identify and clarify information and ideas, and then organise and process information. They use questioning to investigate and analyse ideas and issues, make sense of, and assess information and ideas, and collect, compare, and evaluate information from a range of sources. In developing and acting with critical and creative thinking, learners:

- pose questions
- identify and clarify information and ideas
- organise and process information.

Learning Progression	EYFS	Key Stage One	Lower Key Stage Two	Upper Key Stage Two
Pose questions	pose factual and exploratory questions based on personal interests and experiences	pose questions to identify and clarify issues, and compare information in their world	pose questions to expand their knowledge about the world	pose questions to clarify and interpret information and probe further to discover
				causes and consequences
Identify and clarify information	identify and describe familiar	Identify and explore	identify main ideas and select	identify and clarify relevant
and ideas	information and ideas during a discussion or investigation	information and ideas from source materials	and clarify information from a range of sources	information and prioritise ideas
Organise and process information	gather similar information from given sources	organise information based on similar or relevant ideas from several sources	collect, compare, and categorise facts and opinions found in a wide range of sources	analyse, condense, and combine relevant information from multiple sources

### Generating ideas, possibilities and actions element

Learners create ideas and actions and consider and expand on known actions and ideas.

Learners imagine possibilities and connect ideas through considering alternatives, seeking solutions, and putting ideas into action. They explore situations and generate alternatives to guide actions and experiment with and assess options and actions when seeking solutions. In developing and acting with critical and creative thinking, learners:



Visible Learning<sup>pi</sup> Partner School

- imagine possibilities and connect ideas ٠
- consider alternatives ٠
- seek solutions and put ideas into action

Learning Progression	EYFS	Key Stage One	Lower Key Stage Two	Upper Key Stage Two
Imagine possibilities and connect	use imagination to view or	build on what they know to	expand on known ideas to	combine ideas in a variety of
ideas	create things in new ways and	create ideas and possibilities in	create new and imaginative	ways and from a range of
	connect two things that seem	ways that are new to them	combinations	sources to create new
	different			possibilities
		develop and/or produce		
	Listen to an adult or peer	spoken or written texts in print		
	describing the visual features	or digital forms		
	of a text, diagram, picture, or			
	multimedia			
Consider alternatives	suggest alternatives and	identify and compare creative		identify situations where
	creative ways to approach a	ideas to think broadly about a	creative thinking strategies to	current approaches do not
	given situation or task	given situation or problem	propose a range of alternatives	work, challenge existing ideas,
				and generate alternative
<u> </u>		· · · · · · · · · · · · · · · · · · ·		solutions
Seek solutions and put ideas into	predict what might happen in a	investigate options and predict	experiment with a range of	assess and test options to
action	situation and when putting	possible outcomes when		identify the most effective
	ideas into action	putting ideas into action	and putting ideas into action	solution and put ideas into action
Example Pupil Self-Survey Stateme	nts: Pogulation of Cognition			
Reference: Sections of this survey are attributed		ssessing metacognitive awareness. Conter	nporary Educational Psychology, 19, 460-47	5.
Planning	I pace myself while learning in ord		, , , , , ,	
-	I think about what I really need to learn before I begin a task.			
Planning, goal setting, and				
allocating resources prior to Lask myself questions about the material before Lbegin.				
learning	I think of several ways to solve a problem and choose the best one.			
	I read instructions carefully before I begin a task.			
	I organise my time to best accomp	lish my goals		
Information Management	I slow down when I encounter imp	oortant information		
Strategies	I consciously focus my attention on important information			
	I focus on the meaning and signific	cance of new information.		
Skills and strategy sequences	I create my own examples to make			



Visible Learning<sup>plus</sup> Partner School

used to process information more	I draw pictures or diagrams to help me understand while learning.				
efficiently (e.g., organising)	I try to translate new information into my own words.				
	I use the organisational structure	of the text to help me learn			
	I ask myself if what I'm reading is	related to what I already know.			
I try to break studying down into smaller steps.					
	I focus on overall meaning rather	than specifics			
<u>Monitoring</u>					
During the monitoring phase, learn	ers implement their plan and moni	tor the progress they are making	towards their learning goal. Learne	ers might decide to make changes	
to the strategies they are using if th				-	
'Is the strategy that I am using wor	king?'				
'Do I need to try something differen	-				
For example, in the context of an A	rt activity: Reference: EEF Metacos	gnition and self-regulated learni	ing.pdf		
'Am I doing well?'					
'Do I need any different techniques	to improve my selfportrait?'				
'Are all of my facial features in prop	portion?'				
'Am I finding this challenging?'					
'Is there anything I need to stop and	d change to improve my self-portra	it?'			
Reflecting on thinking and process	<u>es element</u>				
Learners need to reflect on, adjust			-		
Learners think about thinking (meta	acognition), reflect on actions and p	processes, and transfer knowledge	e into new contexts to create alterr	natives or open possibilities. They	
apply knowledge gained in one con		ng and acting with critical and crea	ative thinking, learners:		
<ul> <li>think about thinking (meta</li> </ul>	acognition)				
<ul> <li>reflect on processes</li> </ul>					
<ul> <li>transfer knowledge into ne</li> </ul>	ew contexts.				
Learning Progression	EYFS	Key Stage One	Lower Key Stage Two	Upper Key Stage Two	
Think about thinking	describe what they are thinking	describe the strategies used in	reflect on, explain and check	reflect on assumptions made,	
(metacognition)	and give reasons why	given situations and tasks	the processes used to come to	consider reasonable criticism,	
(metacognition)			conclusions	كالمستبا ستطعيته والاطمين المماد	
(metacognition)			conclusions	and adjust their thinking if	
(metacognition)			conclusions	necessary	



Visible

Learning<sup>p</sup> Partner Schoo

	the steps in a thinking process	sequence in a whole task and separate it into workable parts	in an investigation and separate into smaller parts or ideas	behind choices they have made
Transfer knowledge into new contexts	connect information from one setting to another	use information from a previous experience to inform a new idea	transfer and apply information in one setting to enrich another	apply knowledge gained from one context to another unrelated context and identify new meaning
<b>Example Pupil Self-Survey Statem</b>	ents: Regulation of Cognition			
Comprehension Monitoring	I ask myself periodically if I am meeting my goals			
I consider several alternatives to a problem before I answer.				
Assessment of one's learning or	I ask myself if I have considered all options when solving a problem			
strategy use				
I find myself analysing the usefulness of strategies while I study.				
	I find myself pausing regularly to check my comprehension.			
	I ask myself questions about how well I am doing while learning something new.			
Debugging Strategies	ebugging Strategies I ask others for help when I don't understand something.			
	I change strategies when I fail to understand.			
Strategies to correct	I re-evaluate my assumptions when I get confused.			
comprehension and performance	I stop and go back over new inf	I stop and go back over new information that is not clear.		
errors	I stop and reread when I get confused.			
Evaluation				

Evaluation

During the evaluation phase, learners determine how successful the strategy they used was in helping them to achieve their learning goal. To promote evaluation, learners could consider:

'How well did I do?' 'What didn't go well?' 'What could I do differently next time?' 'What went well?' 'What other types of problem can I use this strategy for?'

For example, in the context of an Art activity: Reference: EEF\_Metacognition\_and\_self-regulated\_learning.pdf

'How did I do?'

An Daras Trust: Vertical Progression Map – Metacognitive Strategies v2 FINAL



An Daras Trust

Visible

Learning<sup>pl</sup> Partner Schoo

#### 'Did my line guide strategy work?'

'Was it the right viewpoint to choose?'

'How would I do a better self-portrait next time?'

'Are there other perspectives, viewpoints or techniques I would like to try?'

### Analysing, synthesising and evaluating reasoning and procedures element

Learners need to analyse, synthesise, and evaluate the reasoning and procedures used to find solutions, evaluate, and justify results or inform courses of action. Learners identify, consider, and assess the logic and reasoning behind choices. They differentiate components of decisions made and actions taken and assess ideas, methods, and outcomes against criteria. In developing and acting with critical and creative thinking, learners:

- apply logic and reasoning
- draw conclusions and design a course of action
- evaluate procedures and outcomes

Learning Progression	EYFS	Key Stage One	Lower Key Stage Two	Upper Key Stage Two	
Apply logic and reasoning	identify the thinking used to	identify reasoning used in	identify and apply appropriate	assess whether there is	
	solve problems in given	choices or actions in specific	reasoning and thinking	adequate reasoning and	
	situations	situations	strategies for outcomes	evidence to justify a claim,	
				conclusion, or outcome	
Draw conclusions and design a	share their thinking about	identify alternative courses of	draw on prior knowledge and	scrutinise ideas or concepts,	
course of action	possible courses of action	action or possible conclusions	use evidence when choosing a	test conclusions and modify	
		when presented with	course of action or drawing a	actions when designing a	
		information	conclusion	course of action	
Evaluate procedures and	check whether they are	evaluate whether they have	explain and justify ideas and	evaluate the effectiveness of	
outcomes	satisfied with the outcome of	accomplished what they set	outcomes	ideas, products, performances,	
	tasks or actions	out to achieve		methods, and courses of action	
				against given criteria	
Example Pupil Self-Survey Statements: Regulation of Cognition					
Evaluation	I know how well I did once I finish a test/ assessment.				
	I ask myself if there was an easier way to do things after I finish a task.				
Analysis of performance and	I summarise what I've learned after I finish.				
strategy effectiveness after a	I ask myself how well I accomplish my goals once I'm finished.				
learning episode	I ask myself if I have considered all options after I solve a problem.				
	I ask myself if I learned as much a				





An Daras Trust: Vertical Progression Map – Metacognitive Strategies v2 FINAL