



Metacogn	itive Skills Prog	ression
Checked by School Le	eader/ Key Stage Leader	Name/Signature/Date:
Checked by Visible Le	earning Coach	Name/Signature/Date:
Monitoring	School Vertical Progression I Ongoing monitoring of plan	egularly monitor the delivery of this Vertical Skills Progression Map. The school must complete an annual review of its Map to check the implementation of curriculum documentation.  nning, learning evidence and pupil knowledge will take place as part of good practice by subject and school leaders. If we will be used to inform in school / Trust CPD Subject Training.
Definition and Guidance	<ul> <li>Metacognitive knowledge knowledge of the nature of when to use these strategies</li> <li>Metacognitive regulation using to solve a mathematic that a particular strategy is r</li> <li>Metacognition describes the Progression Materials are defended</li> </ul>	about' the thing itself. So, metacognition is 'cognition about cognition', or 'thinking about one's thinking'. It is often densions: metacognitive knowledge and metacognitive regulation.  The includes the learner's knowledge of their own cognitive abilities (e.g. I have trouble remembering dates), the learner's particular tasks (e.g. the ideas in this article are complex), and the learner's knowledge of different strategies including is (e.g. if I break telephone numbers into chunks I will remember them) (Brown, 1987; Flavell, 1979).  The describes how learners monitor and control their cognitive processes. For example, realising that the strategy they are call problem is not working and trying another approach (Nelson & Narens, 1990). For example, a learner might realise not achieving the results they want, so they decide to try a different strategy.  The processes involved when learners plan, monitor, evaluate and make changes to their own learning behaviours. The divided into three key areas: Planning, Monitoring and Evaluation. Throughout learners are encouraged to self-reflect. I part of the plan-monitor-evaluate process. Encouraging learners to self-question throughout the process will support

#### **Planning**

During the **planning** phase, learners think about the learning intention and consider how they will approach the task and which strategies they will use. At this stage, it is helpful for learners to ask themselves:

'What am I being asked to do?'

'Which strategies will I use?'

'Are there any strategies that I have used before that might be useful?'





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 and ideas	identify and describe familiar information and ideas during a discussion or investigation	Identify and explore information and ideas from source materials	identify main ideas and select and clarify information from a range of sources	identify and clarify relevant 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:





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

seek solutions and put idea	as into action			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	explore situations using	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						
				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	options when seeking solutions	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										
Reference: Sections of this survey are attribu			nporary Educational Psychology, 19, 460-47	75.						
Planning	I pace myself while learning in order to have enough time.									
Dianning and softing and	I think about what I really need to learn before I begin a task.									
Planning, goal setting, and	I set specific goals before I begin a task.									
allocating resources prior to	I ask myself questions about the material before I begin.									
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 accomplish my goals									
Information Management	I slow down when I encounter imp									
Strategies	I consciously focus my attention o	•								
21.00	I focus on the meaning and significance of new information.									
Skills and strategy sequences	I create my own examples to make information more meaningful									





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		

#### **Monitoring**

During the **monitoring** phase, learners implement their plan and monitor the progress they are making towards their learning goal. Learners might decide to make changes to the strategies they are using if these are not working. As learners work through the task, it will help them to ask themselves:

'Is the strategy that I am using working?'
'Do I need to try something different?'

For example, in the context of an Art activity: Reference: EEF Metacognition and self-regulated learning.pdf

'Am I doing well?'

'Do I need any different techniques to improve my selfportrait?'

'Are all of my facial features in proportion?'

'Am I finding this challenging?'

'Is there anything I need to stop and change to improve my self-portrait?'

#### Reflecting on thinking and processes element

Learners need to reflect on, adjust and explain their thinking and identify the thinking behind choices, strategies and actions taken.

Learners think about thinking (metacognition), reflect on actions and processes, and transfer knowledge into new contexts to create alternatives or open possibilities. They apply knowledge gained in one context to clarify another. In developing and acting with critical and creative thinking, learners:

- think about thinking (metacognition)
- reflect on processes
- transfer knowledge into new contexts.

Learning Progression	<u>EYFS</u>	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,
			conclusions	and adjust their thinking if
				necessary
Reflect on processes	identify the main elements of	outline the details and	identify pertinent information	identify and justify the thinking





	the steps in a thinking process	sequence in a whole task and	in an investigation and	behind choices they have made		
		separate it into workable parts	separate into smaller parts or			
			ideas			
Transfer knowledge into new	connect information from one	use information from a	transfer and apply information	apply knowledge gained from		
contexts	setting to another	previous experience to inform	in one setting to enrich	one context to another		
		a new idea	another	unrelated context and identify		
				new meaning		
Example Pupil Self-Survey Statements: Regulation of Cognition						
Comprehension Monitoring	I ask myself periodically if I am r	I ask myself periodically if I am meeting my goals				
	I consider several alternatives to	I consider several alternatives to a problem before I answer.				
Assessment of one's learning or	I ask myself if I have considered	I ask myself if I have considered all options when solving a problem				
strategy use	I periodically review to help me understand important relationships					
	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	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 information that is not clear.					
errors	I stop and reread when I get confused.					
Fucluation	, · ·					

#### 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?'





'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

<u>Learning Progression</u>	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 as I could have once, I finish a task.				



