

(Starting point: MTP and skills ladders)

One class, one concept.

Process	Purpose	Strategies
Investigate	<ul style="list-style-type: none"> Establish prior knowledge Introduce new concept Make links with other areas of maths 	Flipped learning, anchor tasks, Cort1, APC, CAF. De Bono hats exploration, rapid recall to underpin new learning,
Concrete	<ul style="list-style-type: none"> Use of manipulatives to underpin and explain new concepts 	Use of: Numicon, dienes blocks, number lines, beads, cards, online resources, place value groupings... Questioning aimed at manipulating resources and checking understanding
Pictorial	<ul style="list-style-type: none"> Can we recognise and present underpinning knowledge in a variety of ways? How does each representation help to explain our knowledge 	Bar modelling, diagrammatic representation (pizza slices, etc) arrays, place value charts, fraction charts, ipad apps and interactive resources.
Abstract	<ul style="list-style-type: none"> To calculate solutions in numeric form (where appropriate). To begin to recognise and manipulate skills and knowledge in different numeric forms 	(appropriate amount) of calculation practice, missing number puzzles, worded sentences
Apply/reasoning	<ul style="list-style-type: none"> To demonstrate and test deepening understanding of concept To recognise concept presented in alternative forms and settings 	Realistic problem solving, NCETM challenges, Nrich challenges, White Rose resources
Investigate	<ul style="list-style-type: none"> Opportunities to make links within topic and across the wider maths curriculum To apply maths to realistic, immersive, purposeful settings 	Nrich, show me, prove it, sometimes/always/ never. Tie in maths with Science and other areas of curriculum.
<p>Working walls: Progression in maths throughout the concept; WAGOLs to model concrete, pictorial and abstract approaches, step-by-step breakdown of processes and opportunities to master/embed their learning</p>		<p>Maths medics: Two per class, model approaches and strategies for peers, taught to question other children, to probe for understanding.</p>