



Maths Progression of Knowledge and Skills for Early Years

Nursery & Reception

- Strands taken from Birth to 5 Matters New for 2021 **B25** (NB Age bands referred to as 'ranges' hence R 1,2 etc.) Development Matters Revised for 2021 DM and Learning Trajectories (reworded into I can statements).
- Mastering Number is taught in blocks of 5 weeks over Autumn, Spring and Summer 1 terms. Summer 2 focuses on review and assessment of automatic recall of bonds to 5, composition of numbers to 10 and comparison of number patterns. It also introduces the Rekenreks. Links below are made to the progression document.
- Power Maths is used for two weeks each term to cover the strands of spatial awareness, space and measure.

Counting Includes verbal rote counting and object counting	Cardinality Last number counted represents how many are in the set	Subitising and Number conservation/ Composition Visual recognition of quantity of items (without counting one by one) and part-part-whole relationships	Comparing Comparison of quantities by identifying more and less	Addition and subtraction and Composition	Multiplying and Dividing & Fractions
<p>Au Week 2 – focus on counting skills</p> <p>Au Week 6 - focus on counting skills Focus on the 'five-ness of 5' using one hand and the die pattern for 5</p> <p>Au Week 10 – practise object counting skills and verbally counting beyond 20</p> <p>Sp Week 12 - counting – focus on ordinality and the 'staircase' pattern See that each number is one more than the previous number</p> <p>Week 16 - focus on the 'staircase' pattern and ordering numbers</p>	<p>Au Week 10 - match numerals to quantities within 10</p> <p>Su Week 21 - counting larger sets and things that cannot be seen</p>	<p>Au Week 1 – subitising to 3</p> <p>Au Week 3 - explore how all numbers are made of 1s Focus on composition of 3 and 4</p> <p>Au Week 4 – subitise objects and sounds</p> <p>Sp Week 11 - subitise within 5 focusing on die patterns Match numerals to quantities within 5</p> <p>Sp Week 13 - focus on 5</p> <p>Sp Week 14 - focus on 6 and 7 as '5 and a bit'</p> <p>Sp Week 15 - compare sets and use language of comparison: more than, fewer than, an equal number to Make unequal sets equal</p> <p>Sp Week 18 - focus on 7</p> <p>Sp Week 19 - doubles – explore how some numbers can be made with 2 equal parts</p> <p>Sp Week 20 - Sorting numbers according to attributes - odd and even numbers</p> <p>Su Week 22 - subitising – to 6, including in structured arrangements</p> <p>Su Week 23 - composition – '5 and a bit'</p> <p>Su week 24 - composition - of 10</p>	<p>Au Week 5 - Comparison of sets - 'just by looking' Use the language of comparison: <i>more than</i> and <i>fewer than</i></p> <p>Au Week 7 - comparison of sets - by matching Use the language of comparison: <i>more than</i>, <i>fewer than</i>, an equal number</p> <p>Sp Week 17 - focus on ordering of numbers to 8 Use language of <i>less than</i></p> <p>Su Week 25 - comparison – linked to ordinality Play track games</p>	<p>Au Week 8 - explore the concept of 'whole' and 'part'</p> <p>Au Week 9 - focus on the composition of 3, 4 and 5</p>	
<p>I am beginning to be aware of numbers.</p> <p>B25 R2 <i>Number</i>. May be aware of number names through their enjoyment of action rhymes and songs that relate to numbers.</p>	<p>I can give you the correct number of items to 3/5 if you ask me.</p> <p>B25 R4 <i>Cardinality</i>. In everyday situations, takes or gives two or three</p>	<p>I can observe and track an item and have a sense of many items.</p> <p>I have a good number sense of 1 and two items.</p> <p>B25 R3 <i>Cardinality</i>. Uses number words like <i>one</i> or <i>two</i> and sometimes responds accurately when asked to give one or two things.</p>	<p>I am beginning to differentiate between amounts.</p> <p>B25 R1 <i>number</i>. Reacts to obvious changes of amount when those amounts are significant (more than double).</p>	<p>I understand that a few or many objects can be grouped together as a whole. (Can see red and blue bricks separately but sees them as a collective of bricks.)</p>	<p>I can share out a small amount of objects sometimes equally.</p> <p>I can share out a small amount of items equally</p>



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<p>DM Birth to 3. Take part in finger rhymes with numbers.</p> <p>I am interested in counting words and can be a number chanter.</p> <p>B25 R3 <i>Counting</i>. Says some counting words.</p> <p>I am beginning to count in sequence and may use my finger to tap or point to count out objects.</p> <p>B25 R3 <i>Counting</i>. May engage in counting-like behaviour, making sounds and pointing or saying some numbers in sequence.</p> <p>DM Birth to 3 Develop counting like behaviour, such as making sounds, pointing or saying some numbers in sequence.</p> <p>DM Birth to 3 Count in everyday contexts, sometimes skipping numbers - '1-2-3-5'.</p> <p>I am beginning to understand one to one correspondence whilst counting objects in a line or moving objects.</p> <p>B25 R5 <i>Counting</i>. Points or touches (tags) each item, saying one number for</p>	<p>objects from a group.</p> <p>I can count out up to 3 fingers by opening them one by one slowly.</p> <p>I can count out up to 5 fingers by counting them one by one.</p> <p>B25 R4 <i>Cardinality</i>. Beginning to count on their fingers.</p> <p>DM 3&4 Yrs Show 'finger numbers' up to 5.</p> <p>I understand that the last number counted is the total amount in the group. (<i>Check this with give me one, give me two and do not stop the child if they continue to count.</i>)</p> <p>B25 R5 <i>Cardinality</i>. Counts up to five items, recognising that the last number said represents the total counted so far (cardinal principle).</p>	<p>I can recognise and make collections of 1 to 3 objects through matching activities. <i>I may not be able to verbalise the words 1 to 3 yet.</i></p> <p>I have a number sense of 1 to 3 objects or an amount in a picture/on a card and can verbalise this.</p> <p>B25 R5 <i>Cardinality</i> Subitises one, two and three objects (without counting).</p> <p>DM 3&4 Yrs Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').</p> <p>I can perceptually recognise items to 5.</p> <p>B25 R6 <i>Cardinality</i>. Engages in subitising numbers to four and maybe five.</p> <p>DM Rec Subitise.</p> <p>I can separate a group of items in different ways and realise the total is still the same. I can do this to 3 and then to 5.</p> <p>B25 R5 Separates a group of three or four objects in different ways, beginning to recognise that the total is still the same.</p> <p>I can conceptually subitise an amount to 5 and work out different combinations of parts to get a whole.</p> <p>B25 R5 <i>Composition</i>. Through play and exploration, beginning to learn that numbers are made up (composed) of smaller numbers.</p> <p>I can use things such as a 5 frame or a 10 frame to conceptually subitise.</p> <p>B25 R6 <i>Composition</i>. Shows awareness that numbers are made up (composed) of smaller numbers, exploring partitioning in different ways with a wide range of objects.</p> <p>I can use conceptual subitising to group smaller amounts into a whole amount. (Part, part whole or varying combinations.)</p>	<p>DM Birth to 3. React to changes of amount in a group of up to three items.</p> <p>I can put objects, words or actions into one to one, or many to one correspondence, such as in matching activities. I may not know the number words yet.</p> <p>I can understand and use the words more or lots.</p> <p>B25 R3 <i>Comparison</i>. Responds to words like <i>lots</i> or <i>more</i>.</p> <p>I can visually estimate who has more or less or the same and may subitise. Later on, I may count to compare.</p> <p>DM Birth to 3 Compare amounts, saying 'lots', 'more' or 'same'.</p> <p>25 R4 <i>Comparison</i>. Beginning to compare and recognise changes in numbers of things, using words like <i>more</i>, <i>lots</i> or <i>same</i>.</p> <p>DM 3&4 Yrs Compare quantities using language: 'more than', 'fewer than'.</p> <p>I am beginning to perceptually compare or</p>	<p>I understand part-whole and can give you a part of a whole amount if you ask me to give you one.</p> <p>I recognise when something has been removed.</p> <p>B25 R2 Number Looks for things which have moved out of sight.</p> <p>I can add a small amount of items together and show understanding with a matching corresponding amount even though I may not be able to verbalise this.</p> <p>I understand the whole is bigger than the parts but may not give an accurate answer to begin with, I just recognise that it is a bigger number.</p> <p>I can solve practical and real-world</p>	<p>between two or three people or toys giving one at a time to each.</p> <p>I can divide a larger amount of objects.</p> <p>I can see arrays in photographs and work out the whole or total.</p> <p>I can equipartition a paper 'cake' or playdough food to share with a friend.</p> <p>I can recognise what is and what is not a half.</p> <p>I can divide a playdough pizza into different parts and talk about it.</p>
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<p>each item, using the stable order of 1,2,3,4,5.</p> <p>DM 3&4 Yrs Say one number for each item in order: 1,2,3,4,5.</p> <p>I can use counting as part of my everyday play.</p> <p>B25 R5 <i>Counting</i>. Uses some number names and number language within play, and may show fascination with large numbers.</p> <p>I realise that anything can be counted</p> <p>DM Rec Count objects, actions and sounds.</p> <p>I can count out to 5 verbally and may be able to count out 5 objects. I have found it helpful to line them up or move them whilst counting.</p> <p>B25 R4 <i>Counting</i>. Begins to say numbers in order, some of which are in the right order (ordinality).</p> <p>DM 3&4 Yrs Recite numbers past 5.</p> <p>I can rote count 1 to 10 and beyond.</p> <p>B25 R5 <i>Counting</i>. May enjoy counting verbally as far as they can go.</p>	<p>DM 3&4 Yrs Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').</p> <p>I can count out up to 10 items accurately.</p> <p>B25 R6 <i>Cardinality</i>. Counts out up to 10 objects from a larger group.</p> <p>I am beginning to notice numerals in my environment.</p> <p>B25 R4 <i>Cardinality</i>. Beginning to notice numerals (number symbols).</p> <p>I am beginning to link numerals to a specific amount with objects and during interactive games.</p> <p>B25 R5 <i>Cardinality</i>. Links numerals with amounts up to 5 and maybe beyond.</p>	<p>B25 R6 <i>Composition</i>. Begins to conceptually subitise larger numbers by subitising smaller groups within the number, e.g. sees six raisins on a plate as three and three.</p> <p>DM Rec Explore the composition of numbers to 10.</p> <p>I can recall number bonds to 10</p> <p>DM Rec Automatically recall number bonds for numbers 0–10.</p>	<p>match small amount of similar or dissimilar collections (I may count or subitise these).</p> <p>B25 R5 <i>Comparison</i>. Compares two small groups of up to five objects, saying when there are the same number of objects in each group, e.g. <i>You've got two, I've got two. Same!</i></p> <p>I am beginning to use a mental number line to position a given number.</p> <p>I am beginning to identify some ordinal number positions such as the first and second teddy in sequence.</p> <p>I can identify and use ordinal numbers orally to 5 and beyond.</p> <p>I can compare numbers to 10 and beyond even if one set of objects is a larger physical size than the other.</p> <p>B25 R6 <i>Comparison</i>. Uses number names and symbols when comparing numbers, showing interest in large numbers.</p> <p>DM Rec Compare numbers.</p>	<p>mathematical problems through play and using objects such as 'part part whole' and separating with objects.</p> <p>B25 R5 <i>Composition</i>. Beginning to use understanding of number to solve practical problems in play and meaningful activities.</p> <p>DM 3&4 Yrs Solve real world mathematical problems with numbers up to 5.</p> <p>I am beginning to understand the concept of 1 more and 1 less.</p> <p>B25 R5 <i>Composition</i>. Beginning to recognise that each counting number is one more than the one before.</p> <p>DM Rec Understand the 'one more than/one less than' relationship</p>	
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<p>DM 3&4 Yrs Recite numbers past 5.</p> <p>DM Rec Count beyond 10.</p> <p>I can recognise numerals to 5.</p> <p>I can recognise numbers up to 10.</p> <p>B25 R5 <i>Counting</i>. Begin to recognise numerals 0 to 10.</p> <p>I can sequence 0-10 in order.</p> <p>B25 R6 <i>Counting</i>. Increasingly confident at putting numerals in order 0 to 10 (ordinality).</p> <p>I can count backwards from 10 to 0 verbally or when moving objects from a group.</p> <p>B25 R6 <i>Counting</i>. Enjoys reciting numbers from 0 to 10 (and beyond) and back from 10 to 0.</p> <p>I can count on from any given number.</p> <p>I can tell you what number comes after or before a given number.</p>	<p>DM 3&4 Yrs Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.</p> <p>I can recognise my birthday number.</p> <p>I can use a number line to 5 to position a number when shown 0 and 5.</p> <p>I can order dotted cards or stones to 5 in the correct sequence.</p> <p>I can order the numerals to 5 in the correct sequence.</p> <p>I can order dotted cards, stones etc or numerals up to 10 in the correct sequence.</p> <p>B25 R6 <i>Cardinality</i>. Matches the numeral with a group of items to show how many</p>		<p>I can estimate a larger collection of items and check by counting</p> <p>B25 R6 <i>Comparison</i>. Estimates of numbers of things, showing understanding of relative size.</p>	<p>between consecutive numbers.</p> <p>I can add one and subtract one from a given number to 10 and say how many I have altogether. I may just know this without having to recount.</p> <p>25 R6 <i>Composition</i>. In practical activities, adds one and subtracts one with numbers to 10.</p> <p>I can work out the missing addend or amount taken away in a number problem sentence (such as you started with 10 apples and now have 5, what changed?).</p> <p>B25 R6 <i>Composition</i>. Begins to explore and work out mathematical problems, using signs and strategies of their own choice,</p>	
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<p>I can see errors in other's counting or self-correct when counting.</p> <p>I can count in 10's and use patterns to count.</p>	<p>there are (up to 10).</p> <p>DM Rec Link the number symbol (numeral) with its cardinal number value.</p> <p>I can represent amounts using symbols and marks.</p> <p>I can represent amounts using numerals.</p> <p>B25 R5 <i>Cardinality.</i> Explores using a range of their own marks and signs to which they ascribe mathematical meanings.</p> <p>DM 3&4 Yrs Experiment with their own symbols and marks as well as numerals.</p>			<p>including (when appropriate) standard numerals, tallies and "+" or "-"</p>	
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POWER MATHS Autumn Unit 6 – Select, rotate and manipulate shapes in order to develop spatial reasoning.	Autumn Unit 3 – 2D and 3D shapes Summer Unit 17 – composing and decomposing shapes	Spring Unit 13 – making simple patterns and exploring simple patterns. Continue, copy and create repeating patterns	Spring Unit 10 – Length, height, distance and weight. Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity Summer unit 18 – volume and capacity
Spatial awareness	Shape	Pattern	Measures
<p>I can explore the space around me. B25 R1 Explores space when they are free to move, roll and stretch. B25 R1 Developing an awareness of their own bodies, that their body has different parts and where these are in relation to each other. B25 R2 Explores space around them and engages with position and direction, such as pointing to where they would like to go. B25 R3 Investigates fitting themselves inside and moving through spaces. DM Birth to 3 Climb and squeezing selves into different types of spaces. B25 R4 Moves their bodies and toys around objects and explores fitting into spaces.</p> <p>I enjoy filling and emptying a variety of containers. B25 R3 Enjoys filling and emptying containers.</p> <p>I can follow and use positional language.</p>	<p>I can perceive the shape and size of objects and begin matching and exploring. B25 R1 Beginning to put objects inside others and take them out again. DM Birth to 3 Combine objects like stacking blocks and cups. Put objects inside others and take them out again. B25 R2 Stacks objects using flat surfaces.</p> <p>I can compose shapes with anticipation and fit pieces into the same shaped 'hole' such as an inset puzzle. B25 R2 Attempts, sometimes successfully, to match shapes with spaces on inset puzzles. DM Birth to 3 Complete inset puzzles. B25 R3 Pushes objects through different shaped holes and attempts to fit shapes into spaces on inset boards or puzzles.</p> <p>I can use the actual shape or substitute it with smaller and different shapes. B25 R3 Beginning to select a shape for a specific space.</p>	<p>I am showing awareness of and beginning to anticipate patterns even if I cannot verbalise it. B25 R1 Shows interest in patterned songs, rhymes and movements. B25 R1 Experiences patterned objects and images. B25 R1 Begins to predict what happens next in predictable situations. B25 R2 Joins in with repeated actions in songs and stories. B25 R2 Initiates and continues repeated actions. B25 R3 Becoming familiar with patterns in daily routines. B25 R3 Joins in with and predicts what comes next in a familiar story or rhyme.</p>	<p>I can recognise similarities and differences in sizes, lengths, heights, widths, weight and capacity. I can compare them as I order and/or build and play. I can learn to use language that relates to them. B25 R1 Responds to size, reacting to very big or very small items that they see or try to pick up. B25 R2 Shows an interest in objects of contrasting sizes in meaningful contexts. B25 R3 Shows an interest in size and weight. DM Birth to 3 Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'. B25 R2 Shows an interest in emptying containers. B25 R3 Explores capacity by selecting, filling and emptying containers e.g. fitting toys in a pram. B25 R4 Explores differences in size, length, weight and capacity.</p>



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<p>B25 R4 Responds to some spatial and positional language.</p> <p>DM 3&4 Yrs Understands position through words alone – for example, “The bag is under the table,” – with no pointing.</p> <p>B25 R5 Responds to and uses language of position and direction.</p> <p>I can remember and talk about routes, viewpoints and maps.</p> <p>B25 R4 Begins to remember their way around familiar environments.</p> <p>DM 3&4 Yrs Describe a familiar route.</p> <p>DM 3&4 Yrs Discuss routes and locations, using words like ‘in front of’ and ‘behind’.</p> <p>B25 R4 Explores how things look from different viewpoints including things that are near or far away.</p> <p>B25 R6 Uses spatial language, including following and giving directions, using relative terms and describing what they see from different viewpoints.</p> <p>B25 R6 May enjoy making simple maps of familiar and imaginative environments, with landmarks.</p> <p>I can use spatial awareness when creating shape pictures or structures.</p> <p>B25 R5 Predicts, moves and rotates objects to fit the space or create the shape they would like.</p> <p>B25 R6 Investigates turning and flipping objects in order to make shapes fit and create models; predicting and visualising how they will look (spatial reasoning).</p>	<p>B25 R4 Chooses puzzle pieces and tries to fit them in.</p> <p>I can build and play with shapes. I can make shape pictures. At first these will be simple and then they will become more complex.</p> <p>B25 R3 Enjoys using blocks to create their own simple structures and arrangements.</p> <p>DM Birth to 3 Build with a range of resources.</p> <p>B25 R4 Makes simple constructions.</p> <p>B25 R5 Chooses items based on their shape which are appropriate for the child’s purpose.</p> <p>DM 3&4 Yrs Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc.</p> <p>B25 R5 Enjoys partitioning and combining shapes to make new shapes with 2D and 3D shapes.</p> <p>DM 3&4 Yrs Combine shapes to make new ones – an arch, a bigger triangle etc.</p> <p>B25 R5 Attempts to create arches and enclosures when building, using trial and improvement to select blocks.</p> <p>B25 R6 Enjoys composing and decomposing shapes, learning which shapes combine to make other shapes.</p> <p>DM Rec Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.</p> <p>B25 R6 Uses own ideas to make models of increasing complexity, selecting blocks needed, solving problems and visualising what they will build.</p>	<p>B25 R3 Beginning to arrange items in their own patterns, e.g. lining up toys.</p> <p>DM Birth to 3 Notice patterns and arrange things in patterns.</p> <p>DM 3&4 Yrs Talk about and identify the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like ‘pointy’, ‘spotty’, ‘blobs’ etc.</p> <p>B25 R4 Joins in and anticipates repeated sound and action patterns.</p> <p>B25 R4 Is interested in what happens next using the pattern of everyday routines.</p> <p>DM 3&4 Yrs Begin to describe a sequence of events, real or fictional, using words such as ‘first’, ‘then...’</p> <p>I can fix/fill in, duplicate/copy and extend a simple AB pattern.</p> <p>B25 R5 Creates their own spatial patterns showing some organisation or regularity.</p> <p>DM 3&4 Yrs Extend and create ABAB patterns – stick, leaf, stick, leaf.</p> <p>DM 3&4 Yrs Notice and correct an error in a repeating pattern.</p> <p>I can recognise, describe, and build repeating patterns, including AB but also patterns with core units such as AAB, ABC, and AABC</p> <p>B25 R5 Explores and adds to simple linear patterns of two or three repeating items, e.g. stick, leaf (AB) or stick, leaf, stone (ABC).</p>	<p>DM 3&4 Yrs Make comparisons between objects relating to size, length, weight and capacity.</p> <p>B25 R5 In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items.</p> <p>B25 R6 Enjoys tackling problems involving prediction and discussion of comparisons of length, weight or capacity, paying attention to fairness and accuracy.</p> <p>DM Rec Compare length, weight and capacity.</p> <p>B25 R6 Becomes familiar with measuring tools in everyday experiences and play.</p> <p>I can talk about routines. I can learn to use the language of time.</p> <p>B25 R2 Gets to know and enjoys daily routine.</p> <p>B25 R3 Beginning to understand that things might happen now or at another time, in routines.</p> <p>B25 R4 Beginning to understand some talk about immediate past and future.</p> <p>B25 R4 Beginning to anticipate times of the day such as mealtimes or home time.</p> <p>B25 R5 Recalls a sequence of events in everyday life and stories.</p> <p>B25 R6 Is increasingly able to order and sequence events using everyday language related to time.</p> <p>B25 R6 Beginning to experience measuring time with timers and calendars.</p>
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<p>DM Rec Select, rotate and manipulate shapes in order to develop spatial reasoning skills.</p>	<p>I can match shapes that are identical or have a different orientation or that are the same shape but a different size.</p> <p>I can find 2D and 3D shapes in my environment.</p> <p>B25 R1 Explores differently sized and shaped objects.</p> <p>B25 R2 Responds to changes of shape.</p> <p>B25 R4 Recognises that two objects have the same shape. (Congruence)</p> <p>I can recognise and name typical shapes and later recognise less typical shapes. I can also distinguish between 2D and 3D shapes. I will begin to identify properties such as sides.</p> <p>I may say an angle is a pointy corner before learning that it is called an 'angle' or a vertex or several vertices. I can talk about shape faces and count them accurately.</p> <p>B25 R5 Responds to both informal language and common shape names.</p> <p>DM 3&4 Yrs Talk about and explore 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'.</p> <p>B25 R5 Shows awareness of shape similarities and differences between objects.</p> <p>B25 R6 Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes.</p> <p>I can apply the term 'angle' (point where two rays or lines meet/join) to different</p>	<p>B25 R5 Joins in with simple patterns in sounds, objects, games and stories dance and movement, predicting what comes next.</p> <p>B25 R6 Spots patterns in the environment, beginning to identify the pattern "rule".</p> <p>B25 R6 Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat.</p> <p>DM Rec Continue, copy and create repeating patterns.</p> <p>I can recognise a core unit of a pattern and then translate the pattern into new media e.g. from bricks to matchsticks.</p>	
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