


## ★ Block Map ★

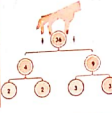
30 Learning Blocks, aligned with national board guidelines and research-based international standards.

**Block 1**




**Large Numbers up to 8 Digits**  
Strand: Numbers & Operations  
Students will understand that an 8-digit number represents 1,00,00,000 and each place in a number has its own value and significance.

**Block 8**




**Factorisation**  
Strand: Numbers & Operations  
Students will understand that all composite numbers can be expressed as a product of prime numbers in only one way, irrespective of the order.

**Block 2**




**Operations on Large Numbers**  
Strand: Numbers & Operations  
Students will understand that word problems can be solved by using the SOLVE strategy.

**Block 9**




**Lines & Curves**  
Strand: Geometry  
Students will understand that lines and curves are important elements and that 2 distinct lines in a plane can be parallel or intersecting.

**Block 3**




**Estimation of Numbers**  
Strand: Numbers & Operations  
Students will understand that estimation involves the rounding off of difficult-to-handle numbers to enable calculations mentally.

**Block 10**




**Angles**  
Strand: Geometry  
Students will understand that an angle is formed when 2 lines meet, and that the size of an angle is measured in degrees.

**Block 4**




**Whole Numbers**  
Strand: Numbers & Operations  
Students will understand how to recognise the number system as natural numbers and whole numbers using a number line.

**Block 11**




**Triangles**  
Strand: Geometry  
Students will understand that a triangle can be categorised on the basis of the lengths of its sides and the measures of its angles.

**Block 5**




**Properties of Whole Numbers**  
Strand: Numbers & Operations  
Students will understand that the properties of numbers help make calculations faster and simpler.

**Block 12**




**Shapes & Solids**  
Strand: Geometry  
Students will understand that shapes can be categorised by their sides and angles, and solids by their faces, edges, and vertices.

**Block 6**




**Factors & Multiples**  
Strand: Numbers & Operations  
Students will understand that a number is a multiple of each of its factors.

**Block 13**




**Introduction to Integers**  
Strand: Numbers & Operations  
Students will understand that integers include whole numbers and their opposites on a number line, where zero is its own opposite.

**Block 7**




**Divisibility Rules**  
Strand: Numbers & Operations  
Students will understand that divisibility rules let us determine if a number is divisible by another, without doing actual calculations.

**Block 14**



**Adding & Subtracting Integers**  
Strand: Numbers & Operations  
Students will understand that adding and subtracting integers are the same as adding and subtracting whole numbers.

**Block 15**



**Fractions**  
Strand: Fractions & Decimals  
Students will understand that a fraction describes the division of a whole (region, set, and segment) into equal parts.

**Block 23**




**Ratio**  
Strand: Ratio & Proportion  
Students will understand that ratios are a multiplicative comparison of two quantities or a joining of two quantities into a composed unit.

**Block 16**



**Comparing Fractions**  
Strand: Fractions & Decimals  
Students will understand that fractions appear in multiple forms and can be compared and ordered based on their value.

**Block 24**




**Proportion**  
Strand: Ratio & Proportion  
Students will understand that equivalent ratios are in proportion and multiple values can be found if the unit value is known.

**Block 17**




**Adding & Subtracting Fractions**  
Strand: Fractions & Decimals  
Students will understand that like fractions are needed before addition or subtraction.

**Block 25**




**Perimeter**  
Strand: Measurement  
Students will understand that the perimeter of a shape is the distance around it and can be calculated using a formula.

**Block 18**



**Decimals**  
Strand: Fractions & Decimals  
Students will understand that a decimal point indicates that a number and the place value of each of its digits is less than 1.

**Block 26**




**Area**  
Strand: Measurement  
Students will understand that the area of a shape is the space it occupies and can be calculated using a formula.

**Block 19**




**Adding & Subtracting Decimals**  
Strand: Fractions & Decimals  
Students will understand that adding and subtracting with decimals relies on place value.

**Block 27**




**Symmetry**  
Strand: Geometry  
Students will understand that some things in our environment have reflecting symmetry and can have one or more lines of symmetry.

**Block 20**




**Data Handling**  
Strand: Data Handling  
Students will understand that different graphs can be used to represent the same data using different scales.

**Block 28**




**Construction of Line Segments**  
Strand: Geometry  
Students will understand that a perpendicular bisector divides a line segment into 2 equal halves.

**Block 21**



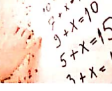
**Introduction to Algebra**  
Strand: Algebra  
Students will understand that variables help us to write rules and formulas for numerical patterns.

**Block 29**




**Circles**  
Strand: Geometry  
Students will understand that a circle is a closed curve whose center is equidistant from any point on the edge of the circle.

**Block 22**



**Algebraic Expressions & Equations**  
Strand: Algebra  
Students will understand that expressions and equations are a mathematical way of representing phrases or sentences.

**Block 30**



**Angle Constructions**  
Strand: Geometry  
Students will understand that angles can be constructed with a compass and that an angle bisector divides an angle into two angles of equal measure.