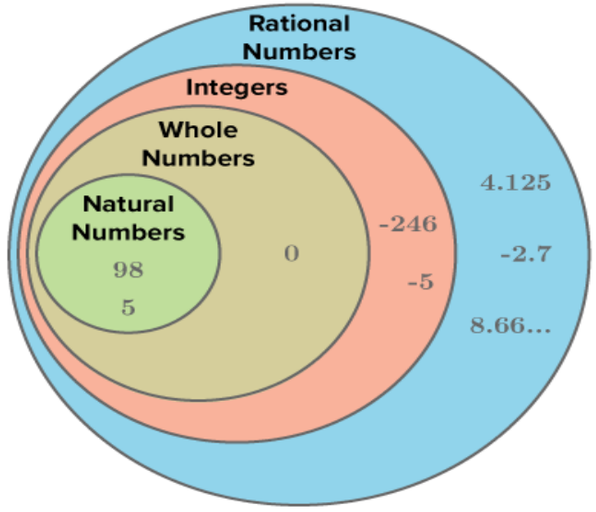
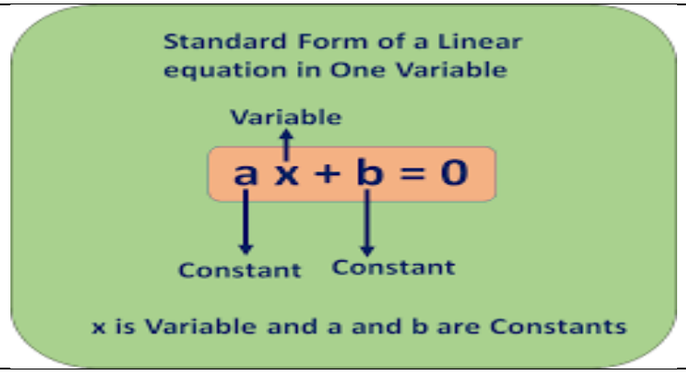
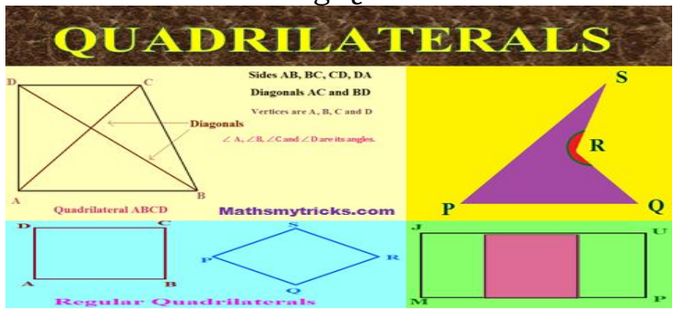
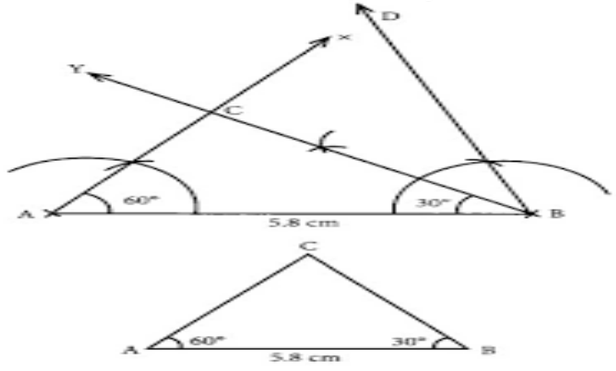
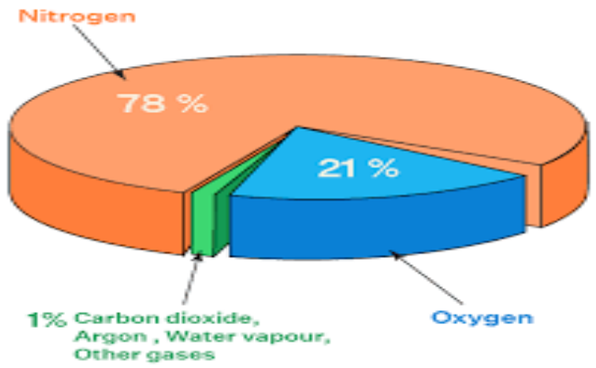
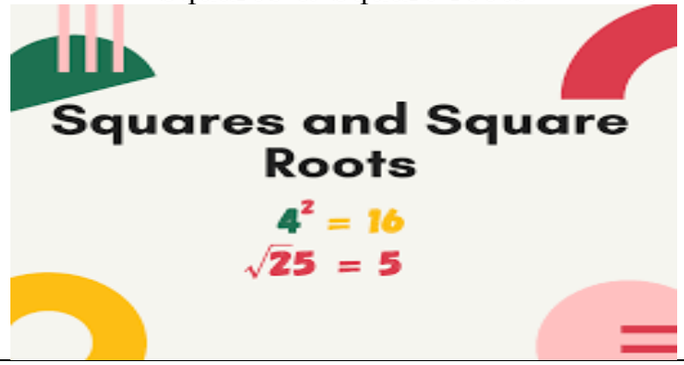
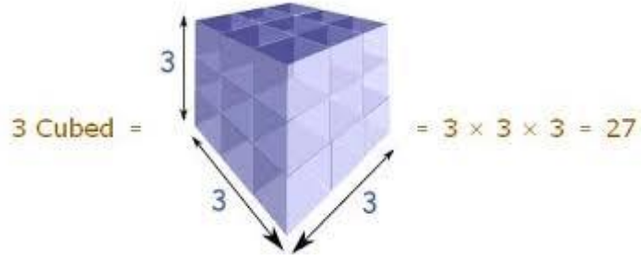
VIDYA PRATISHTHAN'S DR. CYRUS POONAWALLA SCHOOL (CBSE), BARAMATI

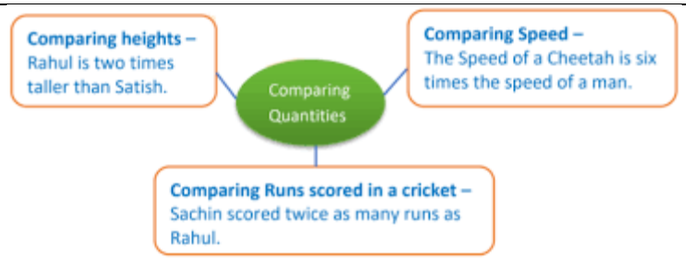
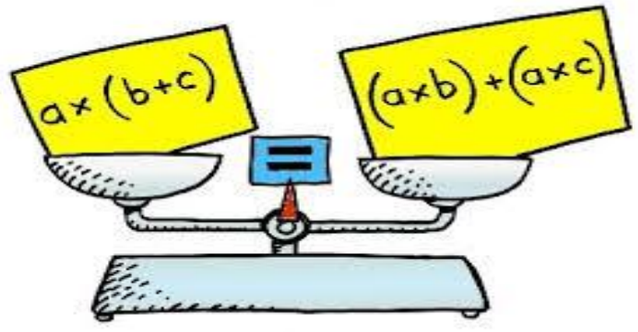
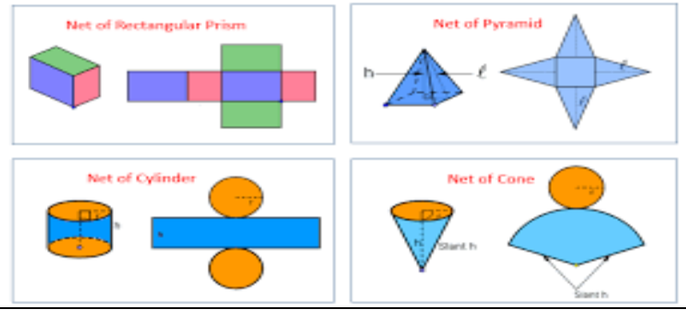
ANNUAL CURRICULUM PLANNING, 2022-23

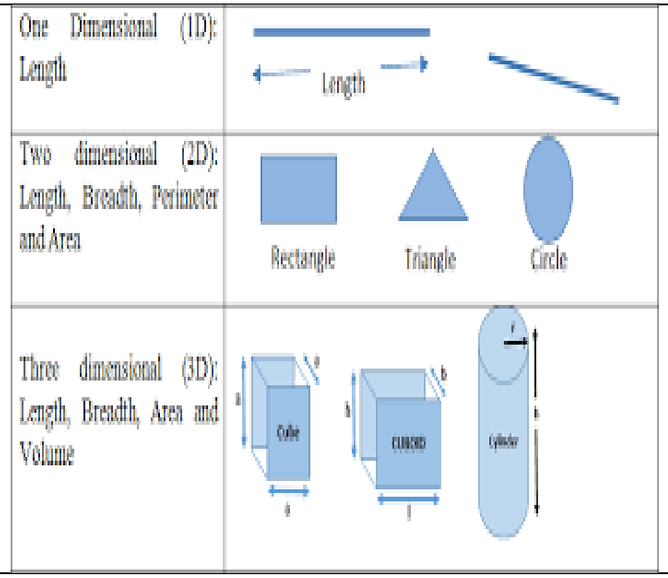
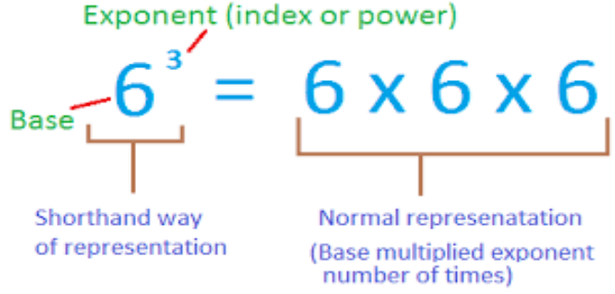
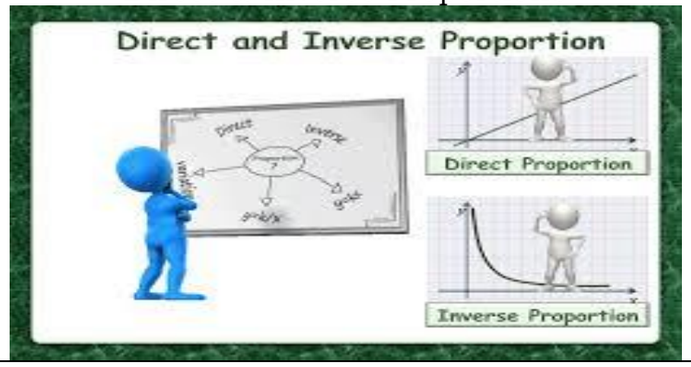
Class-VIII Mathematics

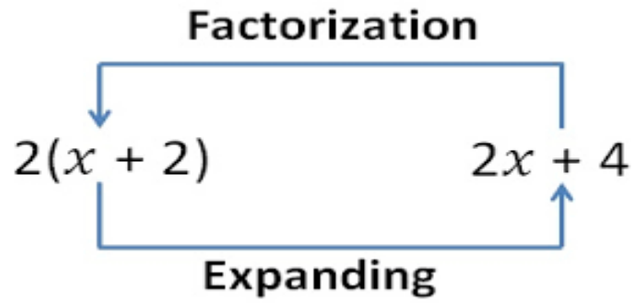
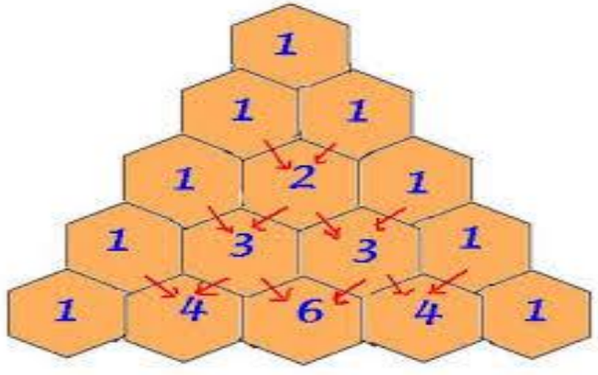
Sr. No.	Content/ Topic	Month & No. of Days	21st Century Skills	Learning Objectives	Expected Learn
1	Bridge Course	April- 12 Days		To revise important concepts, identities, theorems and formulae from grade 7	Students would k concepts, identit formulae from pr
2	Rational Numbers 	April - 10 Days	Critical Thinking and Problem Solving.	• Properties of rational numbers. Closure, Commulativity, Associativity, Distributivity, reciprocal, negative of a number. • Representation of rational numbers on the number line. • Find a rational number between two rational numbers.	Students would k • Recall the n and define r • Explore vari rational nur • Apply the pr various prob • Represent ra on the numl • Explore and rational nur any two give numbers • Acquire prob skills
3	Linear equations in one variable	June- 6 Days	Creativity and Innovation	• How to solve equation. Which have linear expressions on one side & numbers on the other side. • Solving equation having the variable on both side. • Reducing equations to simpler form. • Equations reducible to the linear form.	Students would k • Develop the analyze and between va • Perform nu like formin from word p

					
4	Understanding Quadrilaterals. 	June – 11 Days	Problem solving,	• Classification of polygons. • Angle sum property of polygon • Kinds of quadrilaterals (trapezium and kite, parallelogram, Elements of an angles of parallelogram.	Students would b • Identify dif 2D shapes • Define diffe polygons w • Identify dif quadrilater • Solve probl properties quadrilater
5	Practical Geometry 	July – 12 Days	Creative Thinking	• How to conduct a quadrilateral with given instructions and with some special cases.	Students would b • Perform cor skills like c angles and with differe
6	Data Handling	July – 5 Days August – 4 Days	Collaboration	• Students learn about how to organize data, grouping of data. • Draw circle graph or pie chart.	Students would b • Develop the analyze the of graphs. • Plot the inf

					graphs and critical thin
7	Squares & Square roots 	August – 10 Days	Productivity	• Learn about properties of square nos. • Interesting patterns regarding squares, Pythagorean triplets. • How to find square roots through repeated subtraction, prime factorization, division method. • Learn about square roots of decimals.	Students would b • Develop the analyze and perfect squ square • Find square roots of giv • Apply the c factorizatio to find squa
8	Cubes & cube roots 	August – 08 Days	Productivity	• Cubes, how to find out cubes and cube roots. • How to find cube root through given factorization method.	Students would b • Develop the analyze and between sq cube root • Perform nu and solve w that involve cubes or cu
9	Comparing Quantities	September – 10 Days	Media Visibility	• How to find the increase/decrease percent. • Find discount & estimate of percentages. • Learn about to find compound interest its types & applications	Students would b • Recapitulat of percenta • Find % of g evaluating a percent o

				in day to day life.	• Word probl increase an percent.
10	Algebraic Expressions & Identities 	October – 10 Days	Accountability	• Learn about terms, factors & coefficient. • Monomials, Binomials & Polynomials. • Application of algebraic expressions (addition, subtraction, multiply & divide) • Multiplying a monomial by a monomial, binomial & polynomial. • What is an Identity.	Students would b • Recapitulat Expression efficient, lik unlike term etc. • Recapitulat subtraction Expression
11	Visualising solid shapes 	October – 6 Days	Flexibility and Adaptability	• Recognizing 2D & 3D shapes. Learn about different views of 3D shapes positions. • How to mapping space around us.	Students would b • Draw the • Construct of figures
12	Mensuration	November – 15 Days	Flexibility and Adaptability	• To find out area of a trapezium and a rhombus with using formula. • Surface area of cuboid, cube & cylinder • Find the volume of cuboid, cube & cylinder	Students would b • Surface are square ,rec rhombus, t • Surface are cuboid • Surface are

				• Plane figures and solid shapes. • Faces, edges and vertices • Nets for building 3-D shapes. • Drawing solids on a flat surface (oblique) • Viewing different sections of a solid vertical cut, horizontal cut & shadow playing.	circular cyl • Volume of • Volume of
13	Exponents & Powers 	November – 4 Days December – 3 Days	Learning Skills	• Powers with negative exponents • Laws of exponents • Use of exponents to express small numbers in standard form • Comparing very large and very small numbers	Students would b • Compare ve very large r • Use expone small numb standard fo • Apply the la exponents positive an component
14	Direct & Inverse Proportions 	December – 10 Days	Productivity	• Direct proportion • Inverse proportion	Students would b • Develop the analyze and between di proportions • Perform nu to evaluate value.

15	Factorisation 	December – 5 Days January – 10 Days	Accountability	• Factors of natural numbers • Factors of algebraic expressions • What is factorization? • Method of common factors • Factorisation by regrouping terms • Factorisation using identities • Factors of the form (x+a)(x+b) • Division of algebraic expressions • Can you find the error?	Students would b • Develop the analyze the and decide bo used for • Perform ski in the algeb expressions
16	Introduction To Graphs 	January – 8 Days	Information Literacy	• A bar graph • A pie graph • A histogram • A line graph • Linear graphs • Some applications	Students would b • Develop the analyze the • Perform ski calculating and plot a l
17	Playing With Numbers 	February – 8 Days	Critical Thinking	• Numbers in general form • Games with numbers • Letters and digits • Test of divisibility	Students would b • Recall expa • Apply divis finding out digits in nu also play w trick • Perform the calculation various pro