

Vels Olympiad Portions

Class 5 maths

numerals ,number names (numbers sense 7 and 8 digit number),computation operations length ,weight ,capacity, fractions and decimals ,temperature and money ,conversion, angles perimeter of various shape ,area of rectangle and square, symmetry, data handling

Class 5 topics (mental aptitude)

*pattern, mirror image, direction, days and dates and possible combination, coding and decoding, alphabet test, analogy and classification

Class 5 science

Animals, human body and health, plants, natural resources, Indian Heritage, pollution and calamities ,earth and universe, matter and materials, force and energy

Class 6 maths

Knowing our numbers, whole numbers playing with numbers, basic geometrical ideas, understanding elementary shapes, integers, fractions, decimals, data handling, mensuration, algebra, ratio and proportion, symmetry, practical geometry

Class 6 mental aptitude topics:

Series completion and inserting analogy and classification, coding decoding, logical Venn diagram, analytical reasoning, direction, mirror image. Alphanumeric sequence puzzle

Class 6 science

Motion measurement of distances, light, shadows and reflections, electricity and circuits, fun with magnets, our environment (water, air around us) the world of living beings (characteristics, parts of plants body movements in animals and adaptation), food and its components, fiber to fabric

Class 7 math

integers, exponents and powers, fractions and decimals ,algebraic expression, simple linear equation ,lines and angles ,triangle's and its properties, symmetry ,congruence of triangles, rational numbers, perimeter and area, comparing quantities ,data handling, visualizing solid shapes ,practical geometry.

Class 7 mental aptitude topics:

series completion and inserting, coding and decoding ,blood relations, logical venn diagram, analytical reasoning, direction sense test and analogy and classification, cubes and dice, paper folding and paper cutting.

Class 7 science

heat ,motion and time, electric current and its effects, winds ,storms and cyclones ,light, acids bases and salts ,physical and chemical changes , weather, climate and adaptation of animals to climate fiber and fabric nutrition in plants and animals, respiration in organisms transportation in plants and animals, reproduction in plants ,natural resources and their conservation (soil water, forest our lifeline, waste water story)

Class 8 math

rational numbers ,squares and square roots, cubes and cube roots, exponents and powers, comparing quantities, algebraic expression and identities linear equation in one variable, understanding quadrilaterals, construction, mensuration ,visualizing solid shapes, data handling ,direct and inverse variations, factorization ,introduction to graph ,playing with numbers

Class 8 mental aptitude topics:

series completion and inserting, coding and decoding ,blood relations, logical venn diagram, analytical reasoning, direction sense test and analogy and classification, cubes and dice, paper folding and paper cutting.

Class 8 science

crop production and management, microorganisms ,synthetic fibers and plastics, metals and nonmetals, coal and petroleum, combustion and flame ,conservation of plants and animals ,cell ,reproduction and endocrine system, force and pressure, friction ,sound, chemical effects of electric current, some natural phenomena, stars and solar systems, pollution of air and water.
