

LEARNING OUTCOME (CLASS - VII)

HINDI

1. पाठ्यपुस्तक के प्रश्नोंत्तर, व्याख्या, भावसौंदर्य, काव्यसौंदर्य आदि का ज्ञान ।
2. कवि-जीवन परिचय आदि का ज्ञान ।
3. दोहा, सोरठा, चौपाई का ज्ञान ।
4. संवाद लेखन का ज्ञान ।
5. औपचारिक, अनौपचारिक पत्र लेखन का ज्ञान ।
6. अनुप्रास, समास, उपसर्ग-प्रत्यय, वाक्य भेद का ज्ञान ।
7. निबंध लेखन किसी भी विषय पर विस्तृत की योग्यता ।

CHEMISTRY

1. Matter in our surroundings
 - Students will be able to know about matter.
 - Students will be able understand the different state of matter.
 - Students will be able to apply the concept of evaporation in daily life.
2. Is matter around us pure
 - Students will be able to define mixture.
 - Students will be able to recall about purest substance.
 - Students will be able to apply the concept of filtrations in daily life.
3. Atoms and molecules
 - Students will be able to know about atoms and molecules.
 - Students will be able to understand the concepts of chemical formula.
 - Students will be able to differentiate atoms and molecules.
4. Structure of atom
 - Students will be able to know about charged particles of matter.
 - Students will be able to recall about electrons, protons and neutrons,
 - Students will be able to understand about the different structure of atom.

PHYSICS

CHAPTERS

1. Motion
 - Students will be able to know about motion.
 - Students will be able to understand about types of motion.
 - Students will be able to apply the concepts of motion in daily life.
2. Force and laws of motion
 - Students will be able to define force.
 - Students will be able to understand about the law of motion.
 - Students will be able to apply the concepts of motion in daily life.
3. Gravitation

- Students will be able to define gravitation.
 - Students will be able to differentiate mass and weight
 - Students will be able to utilize the concepts pressure in daily life.
4. Work and energy
- Students will be able to know about work and energy.
 - Students will be able to recall about energy and its types.
 - Students will be able to apply the concepts of energy in daily life.
5. Sound
- Students will be able to define sound.
 - Students will be able to understand about propagation of sound wave.
 - Students will be able to utilize the concepts of sound in daily life.

SOCIAL SCIENCE

Students will be able to:

1. understand the society in which they live, learn how society is structured managed and governed.
2. appreciate the values enshrined in the Indian Constitution such as justice, liberty, equality and fraternity and the unity of the nation .
3. understand the process of economic and social change and development with example from modern and contemporary India and other parts of the world.
4. understand the rights and responsibilities of citizens in a democratic and secular society.
5. explain the size and location of India in the world.
6. state the meaning and features of Democracy.
7. list and explain the arguments in favour of Democracy.
8. Enumerate arguments against democracy.
9. Understand rise and fall of Napoleon Bonaparte.
10. Understand the basic concepts relating to production.
11. Explain about different factors of production needed in farming.
12. Write about the role played by Green Revolution and its impact.
13. Elaborate on the scope of non farming activities.
14. Explain the physical division of India.
15. Explain the concept of Human resource .
16. Understand the meaning and types of economic activities.
17. Understand the role of education and health in improving the quality of population.
18. Analyze the effects of unemployment.
19. Analyze factors highlighting the Germany as an anarchist and dictatorial regime.
20. Comprehend the life of Hitler as a dictator.
21. Have a comparative study of the Nazi outlook with the present day political scenario.
22. Understand the roles and responsibilities of the state in the fulfillment of constitutional obligations.
23. Understand the processes of change and development in India in relation to the world economy and polity.

BIOLOGY

Ch 5 The fundamental unit of life

Students are able to understand that :

- (1)The fundamental organizational unit of life is cell.
- (2)In plant cells, a cell-wall mainly composed of cellulose is present outside cell membrane.
- (4)Prokaryotic cells have no membrane bound organelles.
- (5)Most plant cells have plastids , which are of two types: Chromoplast and Leucoplast.

Ch 6 Tissues:

Students are able to learn that:

- (1)Group of cells performing similar function is known as Tissue.
(a) Meristematic Tissue (b) Permanent tissue
- (3)Animal Tissues are of Following four types:
(a)Epithelial Tissue (b)Connective Tissue (c)Muscular Tissue (d)Nervous tissue
- (4)There are three types of muscles found in human body:
(a)Striated muscle (b)Unstriated muscle (c)Cardiac muscle
- (5)Nervous tissue mainly comprises of Brain, Spinal cord and Nerves.

Ch 7 Diversity in living organisms:

Students are able to learn that:

- (1)Classification helps us in exploring the diversity of life forms.
- (2)All living organisms are divided into five kingdoms: Namely Monera ,Protista ,Fungi ,Plantae and Animalia.
- (3)Plants are divided into five groups:Thallophyta, Bryophyta, Pterydo phyta, Gymnosperms and Angiosperms.
- (4)The binomial nomenclature is made up of two words- a generic name and a specific name.
- (5)Animalia is divided into two main groups: Vertebrata and Invertebrata

Ch 13 Why do we fall ill?:

Students are able to learn that:

- (1)Health is a state of physical, mental and social well-being.
- (2)Diseases are classified into Acute and Chronic diseases.
- (3)Diseases may be Infectious or Non-infectious.
- (4)Organisms that can cause diseases are Bacteria, Virus, Protozoans, Fungi and Worms.
- (5)Prevention of disease is more desirable than its successful treatment.
- (6)Infectious diseases can be prevented by Immunisation.

Ch 14 Natural Resources:

Students will be able to learn that:

- (1)Life on earth depends on resources like soil, water, air and energy from the sun.

- (2) Uneven heating of air over land and water bodies causes winds.
- (3) Rainfall patterns depend on the prevailing wind patterns in an area.
- (4) Pollution of Air, Water and Soil affects the quality of life and harms biodiversity.
- (5) We need to conserve our natural resources and to use them in a judicious or sustainable manner.

Ch 15 Improvement in food resources:

Students are able to learn that:

- (1) Basic methods to improve crop yields.
- (2) Nutrients needed by crops are Macro and Micronutrients.
- (3) Manures and Fertilisers are main sources of nutrient supply to crops.
- (4) Cropping patterns are of three types i.e. Mixed Cropping, Inter Cropping and Crop Rotation.
- (5) Composite fish culture system is commonly used for fish farming.
- (6) Bee-keeping is used to get honey and wax.

MATHS

Number System

In class IX students will have knowledge of Irrational Numbers and their representation on number line. They will become aware with different number systems (Rational, irrational and their collection, Real Numbers). They will be introduced to absolute value of a real number. Through Decimal Expansion they will be able to distinguish rational and irrational number.

Algebra

They will learn polynomial in one variable and types of polynomials, zero of a polynomial and roots of an equation. They will have knowledge of algebraic Identities, remainder Theorem, factor Theorem and methods of factorization of polynomials. They will also learn H.C.F., L.C.M. through Factorization and their application in solving problems.

Co-ordinate Geometry and Linear Equations in two variables

Students will be made familiar with co-ordinate geometry and cartesian plane, co-ordinates of a point and graph of linear equation in two variables and solutions of a linear equation.

Geometry

Students will learn about Euclid's postulates and axioms, basic terms and definitions about lines, angles, parallel lines and Transversal and sum angle property of a triangle. They will have knowledge of criteria for congruence of triangles and inequalities in a triangle. They will have knowledge of properties of quadrilaterals (Parallelogram, Square, Rectangle, Rhombus, Trapezium) and their properties. They will acquire knowledge about areas of parallelograms and triangles on the same base and between the same

parallels. They will learn about circle, chords, arcs and their basic properties. Students will learn to find out area of a triangle through Heron's Formula and its application. They will be able to find out surface area and volume of cube, cuboids, Right circular cone and sphere.

Statistics

Students will be able to understand the need of collection and representation of data and graphical representation of data (Bar graphs, Histograms, Frequency polygon and pie charts) They will learn about measure of central tendency (mean, median, mode) of ungrouped data.

Probability

The students have been introduced about empirical definition of probability through simple trials of tossing of coins, throwing of dice etc.