

ENGLISH ANNUAL SYLLABUS 2021-22

CLASS IX

TERM 1	TERM 2
BEEHIVE (PROSE)	BEEHIVE
Ch 1: The Fun They Had	Ch 7: Packing
Ch 2: The Sound of Music	Ch 8: Reach for the Top
Ch 3: The Little Girl	Ch 9: The Bond of Love
Ch 4: A Truly Beautiful Mind	Ch 10: Kathmandu
Ch 5: The Snake and the Mirror	Ch 11: If I Were You
Ch 6: My Childhood	
POETRY	POETRY
i. The Road Not Taken	vi. No Men Are Foreign
ii. Wind	vii. The Duck and the Kangaroo
iii. Rain on the Roof	viii. On Killing a Tree
iv. The Lake Isle of Innisfree	ix. The Snake Trying
v. A Legend of the Northland	x. A Slumber Did My Spirit Seal
MOMENTS	MOMENTS
Ch 1: The Lost Child	Ch 6: Weathering the Storm in Ersama
Ch 2: The Adventures of Toto	Ch 7: The Last Leaf
Ch 3: Iswaran the Storyteller	Ch 8: A House is Not a Home
Ch 4: In the Kingdom of Fools	Ch 9: The Accidental Tourist
Ch 5: The Happy Prince	Ch 10: The Beggar
GRAMMAR	GRAMMAR
<ul style="list-style-type: none"> • Tenses • Modals • Subject – verb Agreement • Reported speech • Commands and requests • Statements 	<ul style="list-style-type: none"> • Questions • Determiner • Use of Passive Voice • Clauses: Noun, Adverb Clauses of condition and time, Relative Clauses • Prepositions
WRITING	WRITING
Informal Letter	Diary Entry
Descriptive Paragraph	Story Writing

हिंदी पाठ्यक्रम - अ (कोड सं. - 002)
कक्षा 9वीं हिंदी अ - परीक्षा हेतु पाठ्यक्रम विनिर्देशन 2021-22

भारांक 80

निर्धारित समय 3 घंटे

परीक्षा भार विभाजन				
	विषयवस्तु		उप भार	कुल भार
1	अपठित गद्यांश (चिंतन क्षमता एवं अभिव्यक्ति कौशल पर) अति लघूत्तरात्मक एवं लघूत्तरात्मक प्रश्न पूछे जाएंगे।			
	एक अपठित गद्यांश (100 से 150 शब्दों के) (1x2=2) (2x4=8)		10	10
2	व्याकरण के लिए निर्धारित विषयों पर विषय-वस्तु का बोध, भाषिक बिंदु /संरचना आदि पर प्रश्न (1x16)			
	व्याकरण			
	1	शब्द निर्माण उपसर्ग - 2 अंक, प्रत्यय - 2 अंक, समास - 4 अंक	8	16
	2	अर्थ की दृष्टि से वाक्य भेद - 4 अंक	4	
	3	अलंकार - 4 अंक (शब्दालंकार: अनुप्रास, यमक, श्लेष) (अर्थालंकार : उपमा, रूपक, उत्प्रेक्षा, अतिशयोक्ति, मानवीकरण)	4	
3	पाठ्यपुस्तक क्षितिज भाग - 1 व पूरक पाठ्यपुस्तक कृतिका भाग -1			
	अ	गद्य खंड	14	
	1	क्षितिज से निर्धारित पाठों में से गद्यांश के आधार पर विषय-वस्तु का ज्ञान बोध, अभिव्यक्ति आदि पर तीन प्रश्न पूछे जाएंगे। (2x3)	6	
	2	क्षितिज से निर्धारित गद्य पाठों के आधार पर विद्यार्थियों की उच्च चिंतन क्षमताओं एवं अभिव्यक्ति का आकलन करने हेतु चार प्रश्न पूछे जाएंगे। (2x4) (विकल्प सहित)	8	
	ब	काव्य खंड	14	
	1	क्षितिज से निर्धारित कविताओं में से काव्यांश के आधार पर तीन प्रश्न पूछे जाएंगे (2x3)	6	

	2	क्षितिज से निर्धारित कविताओं के आधार पर विद्यार्थियों का काव्यबोध परखने हेतु चार प्रश्न पूछे जाएंगे। (2x4) (विकल्प सहित)	8	34
	स	पूरक पाठ्यपुस्तक कृतिका भाग – 1	6	
		कृतिका के निर्धारित पाठों पर आधारित दो प्रश्न पूछे जाएंगे (विकल्प सहित)। (3x2)	6	
4	लेखन			
	अ	विभिन्न विषयों और संदर्भों पर विद्यार्थियों के तर्कसंगत विचार प्रकट करने की क्षमता को परखने के लिए संकेत बिंदुओं पर आधारित समसामयिक एवं व्यावहारिक जीवन से जुड़े हुए विषयों में से किन्हीं तीन विषयों पर 80 से 100 शब्दों में किसी एक विषय पर अनुच्छेद (5x1)	5	
	ब	अभिव्यक्ति की क्षमता पर केंद्रित औपचारिक अथवा अनौपचारिक विषयों में से किसी एक विषय पर पत्र। (5x1)	5	20
	स	किसी एक विषय पर संवाद लेखन। (5x1) (विकल्प सहित)	5	
	द	लघु-कथा लेखन (दिए गए प्रस्थान बिंदु के आधार पर 100-120 शब्दों में) (विकल्प सहित)	5	
		कुल		80

निर्धारित पुस्तकें :

1. क्षितिज, भाग-1, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण
2. कृतिका, भाग-1, एन.सी.ई.आर.टी., नई दिल्ली द्वारा प्रकाशित नवीनतम संस्करण

नोट – पाठ्यक्रम के निम्नलिखित पाठ हटा दिए गए हैं

क्षितिज, भाग – 1	काव्य खंड	<ul style="list-style-type: none"> • कबीर – साखियाँ व सबद पाठ से सबद-2 संतो भाई आई.. • सुमित्रानंदन पंत – ग्राम श्री
	गद्य खंड	<ul style="list-style-type: none"> • श्यामाचरण दूबे – उपभोक्तावाद की संस्कृति • हज़ारीप्रसाद द्विवेदी – एक कुत्ता और एक मैना
कृतिका, भाग – 1		<ul style="list-style-type: none"> • फणीश्वरनाथ रेणु – इस जल प्रलय में • शमशेर बहादुर सिंह – किस तरह आखिरकार मैं हिंदी में आया

Mathematics Syllabus for the year 2021-22			
Class IX	NAME OF THE BOOK - NCERT (MATHEMATICS)		
			MID TERM
S.NO.	CH. NO.	Name of Chapter	
1	1	NUMBER SYSTEM	
2	2	POLYNOMIALS	
3	3	COORDINATE GEOMETRY	
4	4	LINEAR EQUATION IN TWO VARIABLES	
5	6	LINES AND ANGLES	
6	7	TRIANGLES	
7	12	HERON'S FORMULA	
			FINAL TERM
S.NO.	CH. NO.	Name of Chapter	
1	1	NUMBER SYSTEM	
2	2	POLYNOMIALS	
3	3	COORDINATE GEOMETRY	
4	4	LINEAR EQUATION IN TWO VARIABLES	
5	5	INTRODUCTION TO EUCLID'S GEOMETRY (Deleted)	
6	6	LINES AND ANGLES	
7	7	TRIANGLES	
8	8	QUADRILATERALS	
9	9	AREAS OF PARALLELOGRAMS AND TRIANGLES	
10	10	CIRCLES	
11	11	CONSTRUCTIONS	
12	12	HERON'S FORMULA	
13	13	SURFACEAREAS AND VOLUMES	
14	14	STATISTICS	
15	15	PROBABILITY	

Class IX
Subject: Science (086)
Session: 2021-22

(Annual Examination)
Marks = 80

Unit No.	Unit	Marks	Periods
I	Matter - Its Nature and Behaviour	23	50
II	Organization in the Living World	20	45
III	Motion, Force and Work	27	60
IV	Our Environment	06	15
V	Food; Food Production	04	10
	Total	80	
	Internal assessment	20	
	Grand Total	100	

Theme: Materials

(50 Periods)

Unit I: Matter-Nature and Behaviour

Definition of matter; solid, liquid and gas; characteristics - shape, volume, density; change of state-melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation.

Nature of matter: Elements, compounds and mixtures. Heterogeneous and homogeneous mixtures, colloids and suspensions.

Particle nature and their basic units: Atoms and molecules, Law of constant proportions, Atomic and molecular masses. Mole concept: Relationship of mole to mass of the particles and numbers.

Structure of atoms: Electrons, protons and neutrons, valency, chemical formula of common compounds. Isotopes and Isobars.

Theme: The World of the Living

(45 Periods)

Unit II: Organization in the Living World

Cell - Basic Unit of life :

Cell as a basic unit of life; prokaryotic and eukaryotic cells, multicellular organisms; cell membrane and cell wall, cell organelles and cell inclusions; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus; nucleus, chromosomes - basic structure, number.

Tissues, Organs, Organ System, Organism:

Structure and functions of animal and plant tissues (only four types of tissues in animals; Meristematic and Permanent tissues in plants).

Biological Diversity:

Diversity of plants and animals-basic issues in scientific naming, basis of classification. Hierarchy of categories / groups, Major groups of plants (salient features) (Bacteria, Thallophyta, Bryophyta, Pteridophyta, Gymnosperms and Angiosperms). Major groups of animals (salient features) (Non-chordates upto phyla and chordates upto classes).

Health and Diseases:

Health and its failure. Infectious and Non-infectious diseases, their causes and manifestation. Diseases caused by microbes (Virus, Bacteria and Protozoans) and their prevention; Principles of treatment and prevention. Pulse Polio programmes.

Theme: Moving Things, People and Ideas

(60 Periods)

Unit III: Motion, Force and Work

Motion:

Distance and displacement, velocity; uniform and non-uniform motion along a straight line; acceleration, distance-time and velocity-time graphs for uniform motion and uniformly accelerated motion, derivation of equations of motion by graphical method; elementary idea of uniform circular motion.

Force and Newton's laws :

Force and Motion, Newton's Laws of Motion, Action and Reaction forces, Inertia of a body, Inertia and mass, Momentum, Force and Acceleration. Elementary idea of conservation of Momentum.

Gravitation:

Gravitation; Universal Law of Gravitation, Force of Gravitation of the earth (gravity), Acceleration due to Gravity; Mass and Weight; Free fall.

Floatation:

Thrust and Pressure. Archimedes' Principle; Buoyancy; Elementary idea of Relative Density.

Work, energy and power:

Work done by a Force, Energy, power; Kinetic and Potential energy; Law of conservation of energy.

Sound:

Nature of sound and its propagation in various media, speed of sound, range of hearing in humans; ultrasound; reflection of sound; echo and SONAR. Structure of the Human Ear (Auditory aspect only).

Theme: Natural Resources: Balance in nature

(15 Periods)

Unit IV: Our Environment

Physical resources:

Air, Water, Soil. Air for respiration, for combustion, for moderating temperatures; movements of air and its role in bringing rains across India. Air, water and soil pollution (brief introduction). Holes in ozone layer and the probable damages.

Bio-geo chemical cycles in nature: Water, Oxygen, Carbon and Nitrogen.

Theme: Food

(10 Periods)

Unit V: Food Production

Plant and animal breeding and selection for quality improvement and management; Use of fertilizers and manures; Protection from pests and diseases; Organic farming.

PRACTICALS

(30 Periods)

Practicals should be conducted alongside the concepts taught in theory classes.

(LIST OF EXPERIMENTS)

1. Preparation of: **Unit-I**
 - a) a true solution of common salt, sugar and alum
 - b) a suspension of soil, chalk powder and fine sand in water
 - c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of
 - transparency
 - filtration criterion
 - stability

2. Preparation of **Unit-I**
 - a) A mixture
 - b) A compoundusing iron filings and sulphur powder and distinguishing between these on the basis of:
 - (i) appearance, i.e., homogeneity and heterogeneity
 - (ii) behaviour towards a magnet
 - (iii) behaviour towards carbon disulphide as a solvent
 - (iv) effect of heat

3. Separation of the components of a mixture of sand, common salt and ammonium chloride (or camphor). **Unit-I**

4. Perform the following reactions and classify them as physical or chemical changes: **Unit-I**
 - a) Iron with copper sulphate solution in water
 - b) Burning of magnesium ribbon in air
 - c) Zinc with dilute sulphuric acid
 - d) Heating of copper sulphate crystals
 - e) Sodium sulphate with barium chloride in the form of their solutions in water

5. Preparation of stained temporary mounts of (a) onion peel, (b) human cheek cells & to record observations and draw their labeled diagrams. **Unit-II**

6. Identification of Parenchyma, collenchyma and Sclerenchyma tissues in plants, striped, smooth and cardiac muscle fibers and nerve cells in animals, from prepared slides. Draw their labeled diagrams. **Unit-II**

7. Determination of the melting point of ice and the boiling point of water. **Unit-I**

8. Verification of the Laws of reflection of sound. **Unit-III**

9. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder. **Unit-III**

10. Establishing the relation between the loss in weight of a solid when fully immersed in
 - a) Tap water **Unit-III**
 - b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.
11. Determination of the speed of a pulse propagated through a stretched string/slinky (helical spring). **Unit-III**
12. Study of the characteristics of *Spirogyra*, *Agaricus*, Moss, Fern, Pinus (either with male or female cone) and an Angiospermic plant. Draw and give two identifying features of the groups they belong to. **Unit-II**
13. Observe the given pictures/charts/models of earthworm, cockroach, bony fish and bird. For each organism, draw their picture and record: **Unit-II**
 - a) one specific feature of its phylum.
 - b) one adaptive feature with reference to its habitat.
14. Verification of the law of conservation of mass in a chemical reaction. **Unit-III**
15. Study of the external features of root, stem, leaf and flower of monocot and dicot plants. **Unit-III**

SOCIAL SCIENCE SYLLABUS CLASS-9 (2021-22)

Unit 1: India and the Contemporary World- 1 (HISTORY)

1. The French Revolution
2. Socialism in Europe and the Russian Revolution
3. Nazism and the Rise of Hitler
4. Forest Society and Colonialism

Unit 2: Contemporary India-1 (GEOGRAPHY)

1. India: Size and Location
2. Physical Features of India
3. Drainage
4. Climate
5. Natural Vegetation and WildLife
6. Population

Unit 3: Democratic Politics- 1

1. What is Democracy? Why Democracy?
2. Constitutional Design
3. Electoral Politics
4. Working of Institutions
5. Democratic Rights

Unit 4: Economics

1. The story of Village Palampur
2. People as Resource
3. Poverty as a Challenge
4. Food Security in India

LIST OF MAP ITEMS CLASS IX (2021-22)

SUBJECT-HISTORY

Chapter-1: The French Revolution

Outline Political Map of France (For locating and labelling/ Identification)

- Bordeaux
- Nantes
- Paris
- Marseilles

Chapter-2: Socialism in Europe and the Russian Revolution

Outline Political Map of World (For locating and labelling / Identification)

- Major countries of First World War (Central Powers and Allied Powers)

Central Powers - Germany, Austria-Hungary, Turkey (Ottoman Empire)

Allied Powers-France, England, Russia, U.S.A

Chapter-3: Nazism and Rise of Hitler

Outline Political Map of World (For locating and labelling/Identification)

- Major countries of Second World War
Axis Powers- Germany, Italy, Japan
Allied Powers- UK, France, Former USSR, USA
- Territories under German expansion (Nazi Power)
Austria, Poland, Czechoslovakia (only Slovakia shown in the map),
Denmark, Lithuania, France, Belgium

SUBJECT-GEOGRAPHY (Outline Political Map of India)

Chapter-1: India-Size and Location

- India-States with Capitals, Tropic of Cancer, Standard Meridian (Location and Labelling)

Chapter 2: Physical Features of India

- Mountain Ranges: The Karakoram, The Zaskar, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats
- Mountain Peaks-K2, Kanchenjunga, Anai Mudi
- Plateau-Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau
- Coastal Plains - Konkan, Malabar, Coromandal & Northern Circar (Location and Labelling)

Chapter 3: Drainage

- Rivers: (Identification only)
 - o The Himalayan River Systems-The Indus, The Ganges, and The Satluj
 - o The Peninsular rivers-The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi
- Lakes: Wular, Pulicat, Sambhar, Chilika

Chapter 4: Climate

- Areas receiving rainfall less than 20 cm and over 400 cm (Identification only)

Chapter 5: Natural Vegetation and Wildlife

- Vegetation Type: Tropical Evergreen Forest, Tropical Deciduous Forest, Thom Forest, Montane Forests and Mangrove- For identification only
- National Parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal & Manas
- Bird Sanctuaries: Bharatpur and Ranganthittu
- Wildlife Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam (Location and Labelling)

Chapter 6: Population (Location and Labelling)

- The state having highest and lowest density of population.
- The state having highest and lowest sex ratio
- Largest and smallest state according to area

ANNUAL SYLLABUS

SESSION 2021-2022

CLASS IX

INFORMATION TECHNOLOGY(CODE-402)

TERM PERIOD - APRIL TO SEPTEMBER

EMPLOYABILITY SKILLS:

- *Unit 1: Communication Skills*
- *Unit 2: Self-management Skills*
- *Unit 3: Basic ICT Skills*
- *Unit 4: Entrepreneurial Skills*
- *Unit 5: Green Skills*

VOCATIONAL SKILLS:

- *Unit 1: Introduction to IT-ITeS Industry*
- *Unit 3: Digital Documentation*

TERM PERIOD - OCTOBER TO FEBRUARY

VOCATIONAL SKILLS:

- *Unit 2: Data Entry & Keyboarding Skills*
- *Unit 4: Electronic Spreadsheet*
- *Unit 5: Digital Presentation*