RAHUL INTERNATIONAL SCHOOL
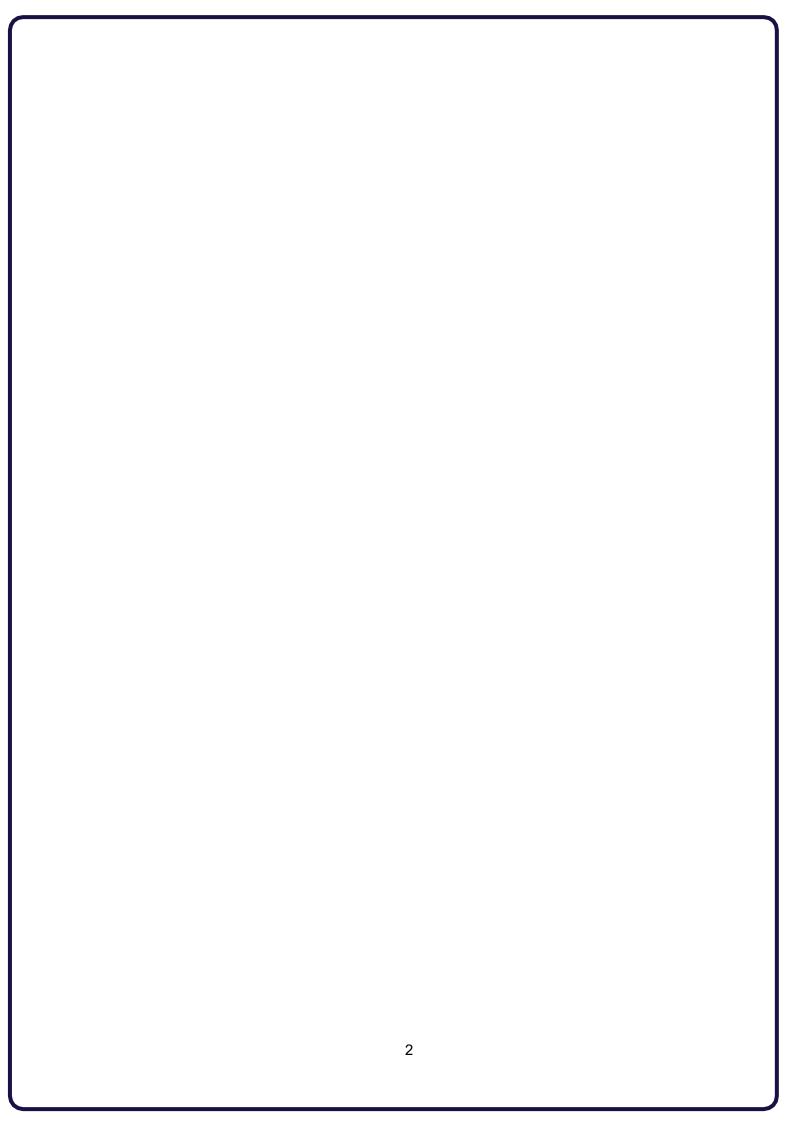
PIONEERING EDUCATION
★ SINCE 1992 ★

BE THE BEST

RIS

CURRICULUM OVERVIEW
GRADE-IX
A.Y. 2022-23

Dear Parents and Guardians,

It is my great pleasure to extend to you a very warm welcome to Rahul International School (RIS). This Curriculum Guide provides information about the curriculum, our approach to teaching and learning in grade 9.

At RIS we are a proud National /International Curriculum school that is committed to excellence in education and to the spirit of international education. In line with our mission statement, our three key focal areas as a school are academic rigour, holistic development of students and the development of internationally minded students. In additional to this we are proud to be a truly inclusive school, supporting and developing students regardless of their background or ability level. Overall, our aim is to develop a caring school community fostering respect for individual and cultural diversity, living and breathing the School Vision attitudes and the Leaner Profile attributes of our school. Our nurturing grade one staff members provide an atmosphere in which life-long learners develop in a safe and secure environment. Students are encouraged to take risks and to share their ideas, thoughts, and use problem-solving strategies during a wide-range of learning activities. We are committed to providing a variety of learning opportunities and experiences that are based on the interests, strengths, and needs of our students, and in laying the foundation for success in learning. As a school, we truly focus on helping the whole child to grow, focusing on physical, social, emotional, cognitive and linguistic development.

 I look forward to seeing and meeting you in the school throughout the year. I would also like to take this opportunity to wish you and your child a happy, productive and fun time in our school in the year ahead.

Best regards,

Principal

Rahul International School

Vision: " A culturally diverse skill –oriented international school where children can achieve the skills of Global Citizenship, leadership, communication , Emotional intelligence , entrepreneurship , problem solving and team working for future preparedness"

Mission: "To empower children to unfold their potentials as whole and unique persons and through them create a peaceful world community through Quality education"

Core Values: Achievement | Collaboration |Innovation| Integrity | Respect | Responsibility

Our Motto: Towards Excellence

CENTRAL BOARD OF SECONDARY EDUCATION

CBSE CURRICULUM

The curriculum refers to the lessons and educational content to be taught to a learner in a school. In empirical terms, it may be regarded as the sum total of a planned set of educational experiences provided to a learner by a school. It encompasses general objectives of learning, competencies to be attained, courses of study, subject-wise learning outcomes and content, pedagogical practices and assessment guidelines. The curriculum provided by CBSE is based on National Curriculum Framework-2005 and seeks to provide opportunities for students to achieve excellence in learning.

Salient Features of the CBSE Secondary School Curriculum

The Curriculum prescribed by CBSE strives to:

1. Provide ample scope for holistic i.e. physical, Intellectual and social development of students;

2. Emphasize constructivist rather than rote learning by highlighting the importance of hands-on experience;

3. Enlist general and specific teaching and assessment objectives to make learning competency based;

4. Encourage the application of knowledge and skills in real life problem solving scenarios;

5. Uphold the Constitutional Values by encouraging values-based learning activities;

6. Promote Critical and Creative Thinking aligned to the 21st Century Skills in classrooms;

7. Integrate innovations in pedagogy such as experiential learning, Sport & Art-Integrated Learning ,toy-based pedagogy, storytelling, gamification etc. with technological innovations (ICT integration) to keep pace with the global trends in various disciplines;

8. Promote inclusive practices as an overriding consideration in all educational activities;

9. Enhance and support learning by different types of assessments; and

10. Integrate environmental education in various disciplines.

Objectives of the Curriculum

1. achieve cognitive, affective and psychomotor excellence;

2. enhance self-awareness and explore innate potential;

3. attain mastery over laid down competencies;

4. imbibe 21st century learning, literacy and life skills;

5. promote goal setting, and lifelong learning;

6. inculcate values and foster cultural learning and international understanding in an interdependent society;

7. acquire the ability to utilize technology and information for the betterment of humankind;

8. strengthen knowledge and attitude related to livelihood skills;

9. develop the ability to appreciate art and show case talents;

10. Promote physical fitness, health and well-being.

11. Promote arts integrated learning

SUBJECTS OFFERED AT RIS: GRADE 9

SUBJECTS	CODE
ENGLISH LANGUAGE AND LITERATURE	184
SCIENCE	086
MATHS	041
SOCIAL SCIENCE	087
HINDI	085
Computer Applications	165

SUBJECT: ENGLISH LANGUAGE AND LITERATURE
(CODE NO.:184)

Ln. No.	Topic	No. of Periods
1	**Reading:** Factual passage and Discursive passage	21
2	**Writing and grammar:** article/ passage, short story writing, speech writing Grammar: 1) Tenses 2) Modals 3) Use of passive voice 4) Reporting 5) Commands and requests 6) Statements 7) Questions 8) Clauses: a) Noun clauses b) Adverb clauses of condition and time c) Relative clauses 9) Determiners 10) Editting and omission 11) Sentence recording and sentence transformation 12) prepositions	80
3.1	**Literature** **Supplemmentary reader: Footprints without feet** 1) A triumph of surgery 2) The thief's story 3)The mid night visitor 4) A question of trust 5)Foot prints without feet 6) The meaning of a scientist 7) The necklace 8) The hack driver 9) Bholi 10) The book that saved the earth	

		Literature **Book 1: Beehhive** **(PROSE)** 1) The fun they had 2)The sound of music 3)The little girl 4)A truly beautiful mind 5)The snake and the mirror 6) My childhood 7)Packing 8)Reach for the top 9)The bond of love 10)Kathmandu 11) If I were you **(POEM)** **1**) The road not taken 2)Wind 3) Rain on the roof 4) The lake Isle of Innisfree 5) A legend of the northland 6)No men are foreign 7)The duck and the Kangaroo 8) On killing a tree 9) The snake trying 10) A slumber did my spirit seal **Book 2 : Moments** 1)The lost child 2)The adventures of toto 3)Iswaran the story teller 4)In the kingdom of fools 5)The happy Prince 6)Weathering the strom in Ersama 7) The last leaf 8) A house is not a home 9) The accidental tourist 10) The beggar	
3.2			91

MONTH	Week	Dates	No of periods available	Topic

9

APRIL	**I**	4 to 9	8	The fun they had (2) The lost child (2) factual passage (2) tenses(2)
	II	11 to 16	4	The sound of music(1) The adventures of toto (1) tenses(1) Article writing(1)
	III	18 to 23	8	Iswaran the story teller (2) Article writing (2) Tenses (2) Factual passage (2)
	IV	25 to 30	8	Iswaran the story teller (2) Article writing (2) modals (2) Factual passage (2)
JUNE	**I**	1 TO 4	2	Informal letter wrting (1) Modals (1)
	II	6 TO 11	8	Informal letter writing (2) The road not taken (2) Determiners(2) Article writing (2)
	III	13 TO 18	8	The little girl (2) Determiners(2) Letter writing (2) Factual Passage (2)
	IV	20 TO 25	8	The rain on the roof (3) Wind (3) Factual passage (2)
	V	27 TO 30	5	REVISION
JULY	**I**	4 TO 11	8	PA 1
	II	12 TO 16	6	A truly beautiful mind (2) Factual passage (2) Report writing (2)
	III	18 TO 23	8	The snake and the mirror (3) Subject vberb concord (4) Report writing (1)

	IV	25 TO 30	8	The snake and the mirror (1) Reported speech (4) Report writing (3)
AUGUST	**I**	1 TO 6	8	In the kingdom of fools (2) Reported speech (4) Factual passage (2)
	II	8 TO 13	6	The lake isle of innisfree (2) Commands and request (2) Speech writing (2)
	III	15 TO 20	2	Speech writing (2)
	IV	22 TO 27	8	The Happy prince (2) Command and requests (4) Statements (2)
	V	29 TO 30	1	The happy prince (1)
	VI	31	0	GANPATI HOLIDAYS
SEPTEMBER	**I**	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	8	Statements (4) Questions(4)
	III	12 TO 17	6	REVISION
	IV	19 TO 26	7	PA 2
	V	27 TO 30	2	My childhood (2)
OCTOBER	**I**	3 TO 8	8	Packing (4) A legend of the northland(4)
	II	10 TO 15	8	Weathering the strom in Ersama(4) Discursive passage (4) REVISION
	III	17 TO 20	4	REVISION
	IV	21 TO 31	0	DIWALI VACATION
NOVEMBER	**I**	2 TO 5	4	REVISION
	II	7 TO 12	8	REVISION

	III	16 TO 23	8	TERM 1
	IV	24 TO 26	4	Reach for the top (1) noun clauses (2) No men are foreign (1)
	V	28 TO 30	4	The bond of love (2) The last leaf (1) Discursive passage (1)
DECEMBER	**I**	1 TO 3	2	Discursive passage (2)
	II	5 TO 9	8	Kathmandu (2) The duck and the kangaroo (2) Adverb clauses of condition and time (4)
	III	12 TO 17	8	If I were you (2) On killing a tree (2) Adverb clauses of condition and time(2) paragraph writing (2)
	IV	19 TO 24	8	Dairy entry (2) The snake trying (3) A house is not a home (2) Relative clauses (1)
	V	25 TO 31	4	HOLIDAY
JANUARY	**I**	2 TO 6	8	The snake trying (2) The accidental Tourist (2) Relative clauses(2) Story writing (2)
	II	9 TO 16	8	PA 3 EXAM
	III	17 TO 20	4	A slumber did my spirit seal (2) The accidental tourist (1) Story writing (1)

	IV	23 TO 27	8	The begger (2) Preposition (6)
	V	30 TO 31	4	Editing and omission (2) Conjunctions (2)
FEBRUARY	I	1 TO 3	4	Conjunctions (4)
	II	6 TO 10	8	Sentence reordering or sentence transformation in context (4)
	III	13 TO 17	8	REVISION
	IV	20 TO 24	8	REVISION
	V	27 TO 28	2	REVISION
MARCH	I	1 TO 7	8	TERM 2
	II			
	III			
	IV			
	V			

PERIODIC ASSESSMENT 1

Book: Beehive

SR. NO	Topic
1)	The Fun They Had
2)	The Sound of Music
3)	The Road Not Taken
4)	Wind
5)	The little girl
6)	Rain on the roof

Book: Moments

SR. NO	Topic
1)	The Lost Child
2)	The Adventures of Toto
3)	Iswaran the storyteller

Reading Comprehension	
Serial Number	Topic
1)	Factual passage

Creative writing	
Serial Number	Topic
1)	Article writing
2)	Formal letter

Grammar	
SR. NO	Topic
1)	Tenses
2)	Modals
3)	Determiners

PERIODIC ASSESSMENT 2	
Book: Beehive	
SR. NO	Topic
1)	A truly beautiful mind
2)	The snake and the mirror
3)	The lake isle of Innisfree
Book: Moments	
SR. NO	Topic
1)	In the kingdom of fools
2)	The happy prince
Reading Comprehension	
Serial Number	Topic
1)	Factual Passage
Creative writing	
Serial Number	Topic

1)	Report writing
2)	Speech writing

Grammar

SR. NO	Topic
1)	Subject-Verb Concord
2)	Reported Speech
3)	Commands and Requests
4)	Statements
5)	Questions

TERM – 1	
SR . NO	**Topic**
1)	Portion of periodic assessment 1 and periodic assessment 2
2)	My childhood
3)	Packing
4)	The legend of the northland
5)	Weathering the storm in Ersama
6)	Discursive passage

PERIODIC ASSESSMENT 3	
Book: Beehive	
SR. NO	**Topic**
1)	Reach for the top
2)	The bond of love
3)	Kathmandu
4)	If I were you
5)	No men are foreign
6)	The duck and the kangaroo
7)	On killing a tree
8)	The snake trying

9)	A slumber did my spirit seal

Book: Moments	

SR. NO	**Topic**
1)	The last leaf
2)	A house is not a home
3)	The accidental tourist
4)	The beggar

Reading Comprehension	

Serial Number	**Topic**
1)	Discursive

TERM 2

Creative writing

SR. NO	**Topic**
1)	Entire syllabus

Serial Number	**Topic**
1)	Story writing

Grammar	

SR. NO	**Topic**
1)	Noun clauses
2)	Adverb clauses
3)	Relative clauses
4)	Prepositions
5)	Editing and omission
6)	Sentence reordering or sentence transformation in context

SUBJECT: SCIENCE

(CODE NO.:086)

Ln. No.	Topic	No. of Periods
1	**UNIT :The world of living** **BIOLOGY** i)Cell - Basic Unit of life ii)Tissues , organs , organ system , organism iii) Biological Diversity iv)Health and Diseases UNIT **: Food** Food production	51
2	**UNIT : Motion , Force and Work** **PHYSICS** i)Motion ii)Force and Newton's laws iii) Gravitation iv)Floatation v)Work , energy and power vi)Sound	60
3	**UNIT : Matter nature and behaviour** **CHEMISTRY** i) Introduction ii)Nature of matter iv)Particle nature , basic units v) Structure of atoms	63

BIOLOLGY

MONTH	Week	Dates	No of periods available	Topic
APRIL	I	4 to 9	2	UNIT 2 : Cell - basic unit of life (2)
	II	11 to 16	1	UNIT 2 : Cell - basic unit of life (2)
	III	18 to 23	2	UNIT 2 : Cell - basic unit of life (2)
	IV	25 to 30	2	UNIT 2 : Cell - basic unit of life (2)
JUNE	I	2 TO 4	2	Unit 2: cell basic unit of life
	II	6 TO 11	2	Ubnit 2 : Cell basic unit of life
	III	13 TO 18	2	UNIT 2 : Cell - basic unit of life (2)
	IV	20 TO 25	2	Unit 2 : cell basic unit of life
	V	27 TO 30	5	REVISION
JULY	I	4 TO 11	8	PA 1
	II	12 TO 16	2	Unit 2: Tissue , organs systems , organisms

	III	18 TO 23	2	Unit 2: Tissue , organs systems , organisms
	IV	25 TO 30	2	Unit 2: Tissue , organs systems , organisms
AUGUST	I	1 TO 6	2	Unit 2: Tissue , organs systems , organisms
	II	8 TO 13	2	Unit 2: Biological diversity
	III	15 TO 20	1	Unit 2: Biological diversity
	IV	22 TO 27	2	Unit 2: Biological diversity
	V	29 TO 30	1	Unit 2: Biological diversity
	VI	31	1	GANPATI HOLIDAYS
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	2	Unit 2: Biological diversity
	III	12 TO 17	5	REVISION
	IV	19 TO 26	7	PA 2
	V	27 TO 30	2	Unit 2: Health and deseases
OCTOBER	I	3 TO 8	2	Unit 2 : Health and deseases
	II	10 TO 15	2	Unit 2 : Health and deases
	III	17 TO 20	2	Unit 2: Health and deseases

	IV	21 TO 31	0	DIWALI VACATION
NOVEMBER	**I**	2 TO 5	2	REVISION
	II	7 TO 12	2	REVISION
	III	16 TO 23	8	TERM 1
	IV	24 TO 26	2	Unit 2: Health and deases
	V	28 TO 30	2	Unit 2: health and deases
DECEMBER	**I**	1 TO 3	2	Unit 4: Food production
	II	5 TO 9	2	Unit 4: Food production
	III	12 TO 17	2	Unit 4: Food production
	IV	19 TO 24	2	Unit 4: Food production
	V	25 TO 31	4	HOLIDAY
JANUARY	**I**	2 TO 6	2	REVISION
	II	9 TO 16	8	PA 3 EXAM
	III	17 TO 20	2	
	IV	23 TO 27	2	

20

	V	30 TO 31	2	
FEBRUARY	I	1 TO 3	2	
	II	6 TO 10	2	
	III	13 TO 17	2	
	IV	20 TO 24	2	
	V	27 TO 28	2	
MARCH	I	1 TO 7	8	TERM 2
	II			
	III			
	IV			
	V			

PHYSICS

MONTH	Week	Dates	No of periods available	Topic
APRIL	I	4 to 9	2	Unit 3 : Motion
	II	11 to 16	1	Unit 3 : Motion
	III	18 to 23	2	Unit 3 : Motion
	IV	25 to 30	2	Unit 3 : Motion
JUNE	I	2 TO 4	2	Unit 3: Motion
	II	6 TO 11	2	Unit 3: Motion

	III	13 TO 18	2	Unit 3: Motion
	IV	20 TO 25	2	Unit 3: Motion
	V	27 TO 30	5	REVISION
JULY	I	4 TO 11	8	PA 1
	II	12 TO 16	2	Unit 3: Force and newton's laws
	III	18 TO 23	2	Unit 3: Force and newton's laws
	IV	25 TO 30	2	Unit 3: Force and newton's laws
AUGUST	I	1 TO 6	2	Unit 3: Force and newton's laws
	II	8 TO 13	2	Unit 3: Force and newton's laws
	III	15 TO 20	1	Unit 3:Gravitation
	IV	22 TO 27	2	Unit 3: Gravitation
	V	29 TO 31	1	Unit 3 : Gravitation
	VI	31	0	GANPATI HOLIDAYS
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	2	Unit 3: Gravitation
	III	12 TO 17	5	REVISION

	IV	19 TO 26	7	PA 2
	V	27 TO 30	2	Unit 3: Floatation
OCTOBER	I	3 TO 8	2	Unit 3: Floatation
	II	10 TO 15	2	Unit 3: Floatation
	III	17 TO 20	2	Unit 3: Floatation
	IV	21 TO 31	0	DIWALI VACATION
NOVEMBER	I	2 TO 5	2	REVISION
	II	7 TO 12	2	REVISION
	III	16 TO 23	8	TERM 1
	IV	24 TO 26	2	Unit 3: Work ,energy and power
	V	28 TO 30	2	Unit 3: Work , enery and power
DECEMBER	I	1 TO 3	2	Unit 3: Work , enery and power
	II	5 TO 9	2	Unit 3: Work , energy and power
	III	12 TO 17	2	Unit 3: Work , energy and power
	IV	19 TO 24	2	Unit 3: Work , energy and power
	V	25 TO 31	4	HOLIDAY
JANUARY	I	2 TO 6	2	REVISION

	II	9 TO 16	8	PA 3 EXAM
	III	17 TO 20	2	Unit 3 : Sound
	IV	23 TO 27	2	Unit 3 : Sound
	V	30 TO 31	2	Unit 3: Sound
FEBRUARY	I	1 TO 3	2	UNIT 3: Sound
	II	6 TO 10	2	Unit 3: Sound
	III	13 TO 17	2	REVISION
	IV	20 TO 24	2	revision
	V	27 TO 28	2	Revision
MARCH	I	1 TO 7	8	TERM 2
	II			
	III			
	IV			
	V			

Chemistry

MONTH	Week	Dates	No of periods available	Topic
APRIL	I	4 to 9	2	Unit 1: Matter - Nature and behaviour
	II	11 to 16	1	Unit 1: Matter - Nature and behaviour
	III	18 to 23	2	Unit 1: Matter - Nature and behaviour

	IV	25 to 30	2	Unit 1: Matter - Nature and behaviour
JUNE	**I**	1 TO 4	2	Unit 1: Matter - Nature and behaviour
	II	6 TO 11	2	Unit 1: Matter - Nature and behaviour
	III	13 TO 18	2	Unit 1: Matter - Nature and behaviour
	IV	20 TO 25	2	Unit 1: Matter - Nature and behaviour
	V	27 TO 30	5	REVISION
JULY	**I**	4 TO 11	8	PA 1
	II	12 TO 16	2	Unit 1: Nature of matter
	III	18 TO 23	2	Unit 1 : Nature of matter
	IV	25 TO 30	2	Unit 1: Nature of matter
AUGUST	**I**	1 TO 6	2	Unit 1: Nature of matter
	II	8 TO 13	2	Unit 1: Nature of matter
	III	15 TO 20	1	Unit 1: Nature of matter
	IV	22 TO 27	2	Unit 1: Nature of matter

	V	29 TO 30	1	Unit 1: Nature of matter
	VI	31	0	GANPATI HOLIDAYS
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	2	Unit 1: Nature of matter
	III	12 TO 17	6	REVISION
	IV	19 TO 26	7	PA 2
	V	27 TO 30	2	Unit 1: Particle nature , basic units
OCTOBER	I	3 TO 8	2	Unit 1: Particle nature , basic units
	II	10 TO 15	2	Unit 1: Particle nature , basic units
	III	17 TO 22	2	Unit 1: Particle nature , basic units
	IV	21 TO 30	0	DIWALI VACATION
NOVEMBER	I	2 TO 5	2	Unit 1: Particle nature , basic units
	II	7 TO 12	2	REVISION
	III	16 TO 23	8	TERM 1
	IV	24 TO 26	2	Unit 1: Structure of atom
	V	28 TO 30	2	Unit 1: Structure of atom
DECEMBER	I	1 TO 3	2	Unit 1: Structure of atom
	II	5 TO 9	2	Unit 1: Structure of atom
	III	12 TO 17	2	Unit 1: Structure of atom
	IV	19 TO 24	2	Unit 4: Pysical resources

	V	25 TO 31	4	HOLIDAY
JANUARY	**I**	2 TO 6	2	REVISION
	II	9 TO 16	8	PA 3 exam
	III	17 TO 20	2	Unit 4: Physical resources
	IV	23 TO 27	2	Unit 4: Physical resources
	V	30 TO 31	2	Unit 4: bio -geo chemical cycles in nature
FEBRUARY	**I**	1 TO 3	2	Unit 4: bio -geo chemical cycles in nature
	II	6 TO 10	2	Unit 4: bio -geo chemical cycles in nature
	III	13 TO 17	2	REVISION
	IV	20 TO 24	2	REVISION
	V	27 TO 28	2	REVISION
MARCH	**I**	1 TO 7	8	TERM 2
	II			
	III			
	IV			
	V			

PERIODIC ASSESSMENT 1	
SR. NO.	**Topic**
1)	Cell basic unit of life
2)	Motion
3)	Matter – nature and behaviour
PERIODIC ASSESSMENT 2	
1)	Tissue , organs , organ system , organisms
2)	Biological diversity
2)	Force and Laws of Motion
3)	Gravitation
4)	Nature of matter

TERM 1	
1)	Entire portion of PA 1 and PA 2
2)	Health and diseases
2)	Particle nature , basic unit
3)	Floatation

PERIODIC ASSESSMENT 3	
1)	Food production
2)	Structure of atoms
2)	Work , energy and power

TERM 2	
1)	Entire portion of PA 1 ,PA 2 , PA 3 and term 1
2)	Health and diseases

2)	Physical resources
3)	Bio –geo chemical cycle in nature
4)	Floatation

PRACTICALS

(LIST OF EXPERIMENTS)

1. Preparation of:

    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

    a) A mixture

    b) A compound

    using 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).

1. Perform the following reactions and classify them as physical or chemical changes:

    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

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

3.   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.

4.   Determination of the melting point of ice and the boiling point of water.

5.   Verification of the Laws of reflection of sound.

6.   Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.

7.   Establishing the relation between the loss in weight of a solid when fully immersed in
    a)   Tap water
    b)   Strongly salty water with the weight of water displaced by it by taking at least two different solids.

8.   Determination of the speed of a pulse propagated through a stretched string/slinky(helical spring).

9.   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.

10.   Observe the given pictures/charts/models of earthworm, cockroach, bony fish and bird. For each organism, draw their picture and record:
    a)   one specific feature of its phylum.
    b)   one adaptive feature with reference to its habitat.

11.   Verification of the law of conservation of mass in a chemical reaction.

12.   Study of the external features of root, stem, leaf and flower of monocot and dicot plants.

SUBJECT: INFORMATION TECHNOLOGY
(CODE NO.:402)

SR.no	Topic	Theory
	PART A: Employability skills	29
1)	UNIT 1 : Communication skills - I	3
2)	UNIT 2 : Self management skills -I	6
3)	UNIT 3:ICT Skills- I	8
4)	UNIT 4:Entreprenueurial skills -I	8
5)	Unit 5:Green skills -I	4
		Theory
SR.NO	**PART B: Subject specific skills**	34
1)	UNIT 1: Introduction to IT-Ites industry	6
2)	Unit 2: Data Entry and keyboarding skills	8
3)	Unit 3 : Digital documentation	8
4)	Unit 4: Electronic Spreadsheet	6
5)	Unit 5: Digital Presentation	6

MONTH	Week	Dates	No of periods available	Topic
APRIL	I	4 to 9	2	Part A , Unit 1 : Communication skills (2)
	II	11 to 16	1	Part A , Unit 1 : Communication skills (2)
	III	18 to 23	2	Part B , Unit 1 : Introduction to IT - IteS industry (2)
	IV	25 to 30	2	Part B , Unit 1 : Introduction to IT - IteS industry (2)
JUNE	I	2 TO 4	2	Part B , Unit 1 : Introduction to IT - IteS industry (2)

31

	II	6 TO 11	2	Part A , Unit 2: Self management skills - 1
	III	13 TO 18	2	Part A , Unit 2: Self management skills - 1
	IV	20 TO 25	2	Part A , Unit 2: Self management skills - 1
	V	27 TO 30	5	REVISION
JULY	I	4 TO 11	8	PA 1
	II	12 TO 16	2	Part A , UNIT 3 : ICT skills
	III	18 TO 23	2	Part A , UNIT 3 : ICT skills
	IV	25 TO 30	2	Part A , UNIT 3 : ICT skills
AUGUST	I	1 TO 6	2	Part A , UNIT 3 : ICT skills
	II	8 TO 13	2	Part B : Unit 2 : Data entry and keyboarding skills
	III	15 TO 20	1	Part B : Unit 2 : Data entry and keyboarding skills
	IV	22 TO 27	2	Part B : Unit 2 : Data entry and keyboarding skills
	V	29 TO 31	1	Part B : Unit 2 : Data entry and keyboarding skills
	VI	31	0	GANPATI HOLIDAYS
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS

32

	II	5 TO 10	2	Part B : Unit 2 : Data entry and keyboarding skills
	III	12 TO 17	5	REVISION
	IV	19 TO 26	7	PA 2
	V	27 TO 30	2	PART A : unit 4 : Entreprenuer skills 1
OCTOBER	**I**	3 TO 8	2	PART A : unit 4 : Entreprenuer skills 1
	II	10 TO 15	2	PART A : unit 4 : Entreprenuer skills 1
	III	17 TO 20	2	PART A : unit 4 : Entreprenuer skills 1
	IV	21 TO 31	0	DIWALI VACATION
NOVEMBER	**I**	2 TO 5	2	REVISION
	II	7 TO 12	2	REVISION
	III	16 TO 23	8	TERM 1
	IV	24 TO 26	2	PART B , UNIT 3: Digital documentation
	V	28 TO 30	2	PART B , UNIT 3: Digital documentation
DECEMBER	**I**	1 TO 3	2	PART B , UNIT 3: Digital documentation
	II	5 TO 9	2	PART B , UNIT 3: Digital documentation
	III	12 TO 17	2	PART A : unit 5: Green skills - 1
	IV	19 TO 24	2	Part A : , Unit 5 , Green skills -1

	V	25 TO 31	4	HOLIDAY
JANUARY	**I**	2 TO 6	2	REVISION
	II	9 TO 16	8	PA 3 EXAM
	III	17 TO 20	2	PART B , UNIT 4 : Electronic spreadsheet
	IV	23 TO 27	2	PART B , UNIT 4 : Electronic spreadsheet
	V	30 TO 31	2	PART B , UNIT 4 : Electronic spreadsheet
FEBRUARY	**I**	1 TO 3	2	PART B , UNIT 5 : Digital presentation
	II	6 TO 10	2	PART B , UNIT 5 : Digital presentation
	III	13 TO 17	2	PART B , UNIT 5 : Digital presentation
	IV	20 TO 24	2	revision
	V	27 TO 28	2	Revision
MARCH	**I**	1 TO 7	8	TERM 2
	II			
	III			
	IV			
	V			

PERIODIC ASSESSMENT -1	
SR . NO	**Topic**
	PART A
1)	Employability skills Unit 1: Communication skills Unit 2: Self- management skills – 1
	PART B
2)	Subject Specific skills Unit 1: Introduction to IT-ITes industry

PERIODIC ASSESSMENT -2	
SR . NO	**Topic**
	PART A
1)	Employability skills Unit 3:ICT skills
	PART B
1)	Subject Specific skills Unit 2: Data Entry and keyboarding skills

TERM 1	
SR . NO	**Topic**
1	**Entire portion of PA 1 and PA 2**
	PARTA
1)	Employability skills Unit 4 : Entrepreneurial skills
	PART B
1)	Subject Specific skills Unit 4: Electronic spreadsheet

PERIODIC ASSESSMENT -3

SR . NO	Topic
	PART A
1)	Employability skills Unit 5: Green skills I
	PART B
1)	Subject Specific skills Unit 3 : Digital Documentation

TERM -2	
SR. NO	**Topic**
1	**Portion of PA 1 , PA 2 , TERM 1 and PA 3**
2	**PART B , UNIT 4 : Electronic spreadsheet**
3	**PART B , UNIT 5 : Digital presentation**

UNIT 1: INTRODUCTION TO IT–ITeS INDUSTRY			
S. No.	**LEARNING OUTCOMES**	**THEORY**	**PRACTICAL**
1	Appreciate the applications of IT	• Introduction to IT and ITeS, BPO services, • BPM industry in India, • Structure of the IT-BPM industry, • Applications of IT in home computing, everyday life, library, workplace, education, entertainment, communication, business, science and engineering, banking, insurance, marketing, health care, IT in the government and public service,	• Identify and list the various IT enabled services, Observe the application of IT in various areas.

UNIT 2: DATA ENTRY AND KEYBOARDING SKILLS

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Use keyboard and mouse for data entry	• Keyboarding Skills, • Types of keys on keyboard, Numeric keypad, • Home keys, Guide keys, • Typing and deleting text, • Typing ergonomics, • Positioning of fingers on the keyboard, Allocation of keys to fingers on four different rows, • Pointing device – Mouse, Mouse operations.	• Identify the keys and its use on the keyboard, • Demonstrate to use various keys on the keyboard, • Demonstrate to type the text, numbers, special character using appropriate keys on the keyboard, • Practice the correct typing ergonomics, • Practice to place fingers on correct key in four different row of keyboard, • Practice various mouse operations.
2.	Use typing software	• Introduction to Rapid Typing Tutor, • Touch typing technique, • User interface of Typing Tutor, • Typing text and interpret results, • Working with lesson editor, • Calculating typing speed, • Typing rhythm.	• Identify the user interface of • typing tutor, • Practice to type text in typing tutor software and interpret the results, • Practice to work in lesson editor, • Calculate the typing speed, • Practice to improve typing • Using typing tutor software.

UNIT 3: DIGITAL DOCUMENTATION

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Create a document using a word processor	• Introduction to word processing, • Word processing applications, • Introduction to Word Processing tool • Creating a document, Parts of a Word Processor Window, Cursor and mouse	• List the available word processing applications. • Introduce with the parts of the main window. • Change document views. • Start a new document. • Open an existing document. • Save a document.

		pointer.	• Close a document.
			• Use the Navigator.
2.	Apply Editing features	• Text editing – Undo and Redo, • Moving and copying text, • Copy and Paste, • Selecting text, • Selection criteria, • Selecting non-consecutive text items, • Selecting a vertical block of • text, • Find and replace option, • Jumping to the page number, • Non-printing characters, • Checking spelling and grammar, • Using Synonyms and Thesaurus.	• Type some text in the document and edit it, • Demonstrate to use undo and redo option, • Use the keyboard and mouse options to select, cut, copy, paste, and move text. • Demonstrate to select non-consecutive text items, vertical block of text, • Search the word from the text and replace it with another word. • Jump to the given page number in a document, • Insert non-printing characters in a document, • Check spelling and grammar and apply the changes to the document. • Demonstrate to use Synonyms and Thesaurus.

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
3.	Apply formatting features	• Page style dial • Formatting text – Removing manual formatting, • Common text formatting, • Changing text case, • Superscript and Subscript, • Formatting paragraph – Indenting paragraphs, • Aligning paragraphs, Font colour, highlighting, and background colour, • Using bullets and numbering, • Assigning colour, border and background to paragraph • Page formatting – setting up basic page layout using styles, Inserting page break, • Creating header/footer and page numbers, • Defining borders and backgrounds, • Inserting images shapes, special characters in a document, • Dividing page into columns, • Formatting the shape or image.	• Apply various text formatting options for the text, • Demonstrate to format paragraphs – indent/align paragraphs, assign font colour, highlighting, and background colour, • Assign number or bullets to the lists items, • Demonstrate to assign colour, border and background to paragraph, • Demonstrate the page formatting – set up basic page layout using styles, • Insert page break, Create header/footer and page numbers, • Define borders and backgrounds • Insert images, shapes, special characters in a document, • Divide page into columns, • Format the shape or image.
4.	Create and work with tables	• Creating table in Word Processor, • Inserting row and column in a table, • Deleting rows and columns, • Splitting and merging tables, • Deleting a table, • Copying a table, • Moving a table.	• Demonstrate and do the following in Word Processor: • Create table, • Insert and delete rows and column in a table, • Split and merge tables, • Delete a table, • Copy or move from one location to another location of document.

5.	Use Print Options	• Printing options in Word Processor. • Print preview, • Controlling printing, • Printing all pages, single and multiple pages.	• Demonstrate to print the document, selected pages in the document • Print the document with various options, • Preview pages before printing.
6.	Understand and apply mail merge	• Concept of mail merge in word processing, • Creating a main document, • Creating the data source, • Entering data in the fields, • Merging the data source with main document, • Editing individual document, • Printing the merged letter, • Saving the merged letter.	• Demonstrate to print the letters using mail merge, Do the following to achieve • Create a main document, • Create the data source, • Enter data in the fields, • Merge the data source with main document, • Edit individual document, • Print the merged letter, • Save the merged letter.

UNIT 4: ELECTRONIC SPREADSHEET			
S. No.	**LEARNING OUTCOMES**	**THEORY**	**PRACTICAL**
1.	Create a Spreadsheet	• Introduction to spreadsheet application, • Starting a spreadsheet, • Parts of a spreadsheet • Worksheet – Rows and columns, Cell and cell address, • Range of cell – column range, row range, row and column range.	• Start the spreadsheet , • Identify the parts of Calc, • Identify the rows number, column number, cell address, • Define the range of cell, • Identify row range, column range, row & column range

2.	Apply formula and functions in spreadsheet	• Different types of data, • Entering data – Label, Values, Formula • Formula, how to enter formula, • Mathematical operators used in formulae, • Simple calculations using values and operators, • Formulae with cell addresses and operators, • Commonly used basic functions in a spreadsheet – SUM, AVERAGE, MAX, MIN, Count • Use of functions to do calculations.	• Demonstrate to enter the text, numeric data in a cell, • Identify the label, values and formula in the cell, • Demonstrate to enter formula in a cell, • Construct the formula using mathematical operators, • Identify formulae with cell addresses and operators, • Identify the correct syntax of formula, • Use the basic functions to perform calculations on data.
3.	Format data in the spreadsheet	• Formatting tool, • Use of dialog boxes to format values, • Formatting a range of cells with decimal places, • Formatting a range of cells to be seen as labels, • Formatting of a cell range as scientific, • Formatting a range of cells to display times, • Formatting alignment of a cell range, • Speeding up data entry using the fill handle, • Uses of fill handle to copy formulae.	• Identify the formatting tool, • Demonstrate to use of dialog boxes to format values, • Demonstrate to format range of cells with decimal places, • Demonstrate to format a range of cells to labels, • Demonstrate to format of a cell range as scientific, • Demonstrate to format a range of cells to display time, • Demonstrate to align cell data range, • Demonstrate to create • number series using fill handle, • Copy formula by dragging the formula using fill handle.
4.	Understand and apply Referencing	• Concept of referencing, • Relative referencing, • Mixed referencing, • Absolute referencing.	• Demonstrate to use Relative referencing in spreadsheet, • Demonstrate to use Mixed referencing in spreadsheet, • Demonstrate to use Absolute referencing in spreadsheet.
5.	Create and insert different types of charts in a spreadsheet	• Importance of chart in spreadsheet, • Types of chart, Example of chart.	• Create different types of chart supported by a spreadsheet, • Illustrate the example of chart in a spreadsheet.

		UNIT 5: DIGITAL PRESENTATION	

S. No.	LEARNING OUTCOMES	THEORY	PRACTICAL
1.	Understand features of an effective presentation	• Concept of presentation, • Elements of presentation, • Characteristics of an effective presentation	• Identify and list the elements of presentation, • List the characteristics of an effective presentation.
2.	Create a presentation	• Introduction to presentation software, • Starting a presentation tool, • Parts of a presentation tool window, • Closing the presentation tool, • Creating a presentation using template, • Selecting slide layout, • Saving a presentation, • Running a slide show, • Save a presentation in PDF, • Closing a presentation, • Using Help.	• Start the presentation application • various components of main Impress window • Observe the different workspace views. • Create a new presentation using wizard. • Run the presentation, • Save the presentation, • Close the presentation, • Demonstrate to use Help in presentation.
3.	Work with slides	• Inserting a duplicate slide, • Inserting new slides, • Slide layout, Copying and moving slides, • Deleting and renaming slides in presentation, • Copying, moving and deleting contents of slide, • View a presentation, • Controlling the size of the view, • Workspace views – Normal, Outline, Notes, Slide sorter view.	• Demonstrate to insert a new slide and duplicate slide in a presentation, • Change the slide layout, • Demonstrate to copy and move slides in the presentation, • Demonstrate to copy, move and delete contents of the slide, • Demonstrate to view a presentation in different views.

Sr.No.	LEARNING OUTCOMES	THEORY	PRACTICAL
4.	Format text and apply animations	• Formatting toolbar, • Various formatting features, • Text alignment, • Bullets and numbering. • Custom Animation	• Identify and list the various options in formatting toolbar, • Apply the appropriate formatting option • Align the text in presentation, • Apply bullets and numbering to the list items in presentation. • Apply Animation
5.	Create and use tables	• Inserting tables in presentation, • Entering and editing data in a table, • Selecting a cell, row, column, table, • Adjusting column width and row height, • Table borders and background	Demonstrate the following: • Insert table in presentation, • Enter and edit data in a table, • Select a cell, row, column, table, • Adjust column width and row height, • Assign table borders and background.
6.	Insert and format image in presentation	• Inserting an image from a file, • Inserting an image from the gallery, • Formatting images, • Moving images, • Resizing images, • Rotating images, • Formatting using the Image toolbar, • Drawing graphic objects – line, shapes, • Grouping and un-grouping objects	• Demonstrate to insert an image from file, gallery in presentation, • Apply formatting options to image in presentation, • Demonstrate to move, resize and rotate images, • Apply formatting options of Image toolbar, • Drawing line, shapes using graphic objects, • Demonstrate to group and un-group objects.
7.	Work with slide master	• Slide masters, • Creating the slide masters, • Applying the slide masters to all slide, • Adding transitions.	• Create the slide masters, • Apply the slide masters to the • presentation, • Add transitions to presentation.

विषय: हिन्दी

कोड नंबर:- 085

Ln. No.	Topic	No. of Periods
1	अपठित गद्यांश	4
2	गद्य खंड	54
5	पद्य खंड	34
6	व्याकरण	31
7	लेखन	10

MONTH	Week	Dates	No of periods available	Topic
APRIL	I	4 to 9	6	अपठित गद्यांश (2) अनुस्वार - अनुनासिक (4)
	II	11 to 16	2	वर्ण विच्छेद (2)
	III	18 to 23	6	⬜शपाल- दुख का अधिकार (6)
	IV	25 to 30	6	रैदास- अब कैसे ⬜टे राम नाम (3) ऐसी लाल तुझ बिनु (3)
JUNE	I	1 TO 4	1	बचेंद्री पाल- ⬜वरेस्ट मेरी शिखर ⬜ात्रा (1)
	II	6 TO 11	6	बचेंद्री पाल- ⬜वरेस्ट मेरी शिखर ⬜ात्रा (5), गिल्लू- महादेवी वर्मा (1)
	III	13 TO 18	6	गिल्लू- महादेवी वर्मा (5), अनुच्छेद लेखन(1
	IV	20 TO 25	6	रहीम- दोहे (4), अनुच्छेद लेखन (2)
	V	27 TO 30	4	REVISION
JULY	I	4 TO 11	6	PA 1
	II	12 TO 16	6	शरद जोशी- तुम कब जाओगे अतिथि (6)
	III	18 TO 23	6	नुक्ता (4), संधि (2)
	IV	25 TO 30	6	संधि (6)
AUGUST	I	1 TO 6	6	नज़ीर अकबराबादी- आदमी नामा (6)

	II	8 TO 13	6	गणेशशंकर विद्यार्थी- धर्म की आड़ (6)
	III	15 TO 20	1	उपसर्ग - प्रत्य□ (1)
	IV	22 TO 27	6	उपसर्ग - प्रत्य□ (6)
	V	29 to 30	1	सि□रामशरण गुप्त- □क फूल की चाह (1)
	V	31	0	GANPATI HOLIDAYS
SEPTEMBER	I	1 TO 3	0	GANPATI HOLIDAYS
	II	5 TO 10	6	सि□रामशरण गुप्त- □क फूल की चाह (3), अनौपचारिक पत्र (3)
	III	12 TO 17	5	REVISION
	IV	19 TO 26	5	PA 2
	V	27 TO 30	3	चित्र वर्णन (3)
OCTOBER	I	3 TO 8	6	स्मृति- श्रीराम शर्मा (6)
	II	10 TO 15	6	धीरंजन मालवे- वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन, रामधारी सिंह दिनकर- गीत अगीत (ONLY READING)
	III	17 TO 22	3	REVISION
	IV	21 TO 31	0	DIWALI VACATION
NOVEMBER	I	2 TO 5	6	REVISION
	II	7 TO 12	6	REVISION
	III	16 TO 23	8	TERM 1
	IV	24 TO 26	6	हामिद खां- □स के. पोट्रेकाट (6)
	V	28 TO 30	2	संवाद लेखन (2)
DECEMBER	I	1 TO 3	1	संवाद लेखन (1)
	II	5 TO 9	6	विराम चिन्ह (6)
	III	12 TO 17	6	स्वामी आनंद- शुक्रतारे के समान (6)
	IV	19 TO 24	6	हरिवंश रा□ बच्चन- अग्निपथ (6)
	V	25 TO 31	3	HOLIDAY
JANUARY	I	2 TO 6	6	REVISION
	II	9 TO 16	8	PA3- EXAM
	III	17 TO 20	6	दि□ जल उठे- मधुकर उपाध्या□ (6)
	IV	23 TO 27	6	अरुण कमल- न□ इलाके में (4) खुशबू रचते हैं हाथ (2)
	V	30 TO 31	3	खुशबू रचते हैं हाथ (2), विज्ञापन लेखन (1)
FEBRUARY	I	1 TO 3	3	विज्ञापन लेखन (3)
	II	6 TO 10	6	

	III	13 TO 17	6	
	IV	20 TO 24	1	
	V	27 TO 28	1	
	I	1 TO 7	6	TERM 2
MARCH	II			
	III			
	IV			
	V			

PERIODIC ASSESSMENT -1
पुस्तक- स्पर्श

क्रमिक संख्या	विषय
1)	शपाल- दुख का अधिकार
2)	रैदास- अब कैसे छूटे राम नाम
3)	ऐसी लाल तुझ बिनु
4)	बचेंद्री पाल- वरेस्ट मेरी शिखर यात्रा
5)	रहीम- दोहे

पुस्तक- संचयन

1)	गिल्लू- महादेवी वर्मा

व्याकरण

क्रमिक संख्या	विषय
1)	अनुस्वार - अनुनासिक
2)	वर्ण विच्छेद

रचनात्मक लेखन

क्रमिक संख्या	विषय
1)	अनुच्छेद लेखन

PERIODIC ASSESSMENT -2	
पुस्तक- स्पर्श	
क्रमिक संख्या	विषय
1)	शरद जोशी- तुम कब जाओगे अतिथि
2)	नज़ीर अकबराबादी- आदमी नामा
3)	गणेशशंकर विद्यार्थी- धर्म की आड़
4)	सियारामशरण गुप्त- एक फूल की चाह
5)	धीरंजन मालवे- वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन
पुस्तक- संचयन	
1)	स्मृति- श्रीराम शर्मा
व्याकरण	
क्रमिक संख्या	विषय
1)	नुक्ता , संधि
2)	संधि
3)	उपसर्ग - प्रत्यय
रचनात्मक लेखन	
क्रमिक संख्या	विषय
1)	चित्र वर्णन

TERM - 1	
पुस्तक- स्पर्श	
क्रमिक संख्या	विषय
1)	Entire portion of PA 1 and PA 2

PERIODIC ASSESSMENT - 3	
पुस्तक- स्पर्श	
क्रमिक संख्या	**विषय**
1)	स्वामी आनंद- शुक्रतारे के समान
2)	हरिवंश राय बच्चन- अग्निपथ
पुस्तक- संचयन	
1)	हामिद खां- सस के. पोट्रेकाट
व्याकरण	
क्रमिक संख्या	**विषय**
1)	विराम चिन्ह
रचनात्मक लेखन	
क्रमिक संख्या	**विषय**
1)	संवाद लेखन
2)	अनौपचारिक पत्र

TERM - 2
Entire portion of PA 1 , PA 2 , TERM 1 and PA 3

पुस्तक- स्पर्श	
क्रमिक संख्या	**विषय**
1)	अरुण कमल- न इलाके में - खुशबू रचते हैं हाथ
2)	

पुस्तक- संचयन	
1)	दि जल उठे- मधुकर उपाध्या

रचनात्मक लेखन	
क्रमिक संख्या	**विषय**
1)	विज्ञापन लेखन

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