



ARMY PUBLIC SCHOOL MIRAN SAHIB
HOLIDAYS HOMEWORK
CLASS: X (2024-25)



SUBJECT: ENGLISH

S.NO	SKILLS	ACTIVITY	LEARNING OUTCOMES	MAR KS
1.	READING AND WRITING	<p>You are Arjun/Anamika, a fitness enthusiast, you have observed that now a days children are giving more importance to studies than physical activity. Write a letter to the editor to promote sports and physical education among students discussing the benefits of sports and physical activity in the schools and advocating for increased opportunities.</p> <p>b) You are a volunteer and you want to promote volunteerism among youth. Write a letter to the editor to promote and highlight the value of volunteering and encouraging more people to get involved in community service.</p> <p>c) As a responsible citizen, you are concerned about the condition of Marine Lines. People have littered the entire place with plastic, masks and garbage. Write a letter to the Editor of a leading daily to spread awareness on the matter.</p> <p>d) Your university is not providing proper curriculum and guidance to the students because of which students are unable to learn. Write a letter to the Editor of a student magazine to highlight this issue.</p> <p>e) You are Karan/Kanika. Your school's Yoga Club hosted a workshop called "Art of Living for Students." Write a letter to the Editor of the local daily newspaper in roughly 100-120 words giving your thoughts on the matter.</p>	<p>Children will be able to understand the language and develop the habit of reading.</p> <p>Children will be able to express themselves through writing on various topics.</p>	10
2.	SUBJECT ENRICHMENT ACTIVITY (LISTENING AND SPEAKING)	<p>Prepare a speech for 3-4 minutes on any one of the given topics as part of ASL. Record a video of the same.</p> <ul style="list-style-type: none"> •Promoting Healthy Lifestyle Habits among youth. •Importance of Books in Our Life. •Social Media: Bane or Boon? <p>The Power of Kindness.</p> <ul style="list-style-type: none"> •Suggestions for new building of the School. <p>Listen to the following for better understanding of the language: https://www.youtube.com/watch?v=rLXcLBfDwvE</p>	<p>Improved communication skills.</p>	5
3.	ART INTEGRATED PROJECT	<p>Unity in diversity: Exploring the cultural Heritage through art." Write about the cultural heritage, diverse traditions, customs, and artistic expressions of Jammu and Kashmir and Gujrat, also highlight the commonalities that unite them.</p> <p>You can take help from the following links: https://gujaratindia.gov.in/about-gujarat/handicraft.htm#:~:text=Needlework%20of%20Gujarat%20is%20famous,unique%20with%20its%20traditional%20skills</p>	<p>Understanding of the culture and heritage.</p>	10

Note: ART INTEGRATION PROJECT, PAIRED STATE J&K AND GUJARAT

SYLLABUS FOR PT-I


MCB

Chapter-1: A Letter to God

Chapter-2: Nelson Mandela- Long Walk to freedom.


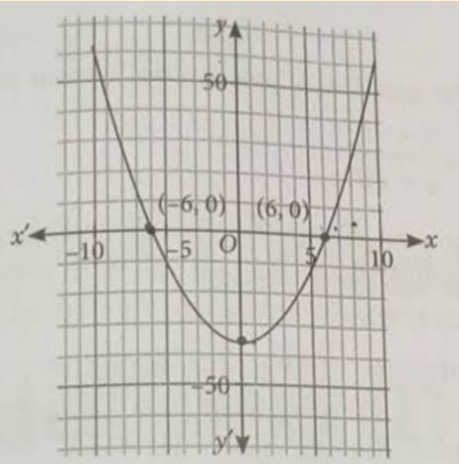
Poem- 1. Dust of Snow
 Poem-2. Fire and Ice
 Poem-3. A Tiger in the Zoo
 Supplementary Reader-
 Chapter-1: A Triumph of Surgery
 Chapter-2: The Thief's Story
 Writing- Letter to Editor
 Grammar- Tenses (gap filling, Editing)

SUBJECT: HINDI

क्रम संख्या	कौशल	विषय	अधिगम के प्रतिफल	अंक
१	लेखन	<p>१ "आ बैल मुझे मार" लोकोक्ति को आधार बनाकर एक लघु कथा लिखें ।</p> <p>२ समाज में बढ़ते भ्रष्टाचार पर चिंता व्यक्त करते हुए और अपने सुझाव देने के लिए प्रधानमंत्री को पत्र लिखें ।</p>	<ul style="list-style-type: none"> ◦ विद्यार्थियों की कल्पना शक्ति का विकास होगा ।लेखन कौशल का विकास होगा । ◦ विद्यार्थी समाज में बढ़ते भ्रष्टाचार के प्रति जागरूक होंगे । 	१०
२	विषय सम्वर्धन गतिविधियाँ	<p>१"खेल और शिक्षा एक ही सिक्के के दो पहलू" विषय पर लघु भाषण तैयार करें तथा चलचित्र बनाकर भेजें।</p> <p>२ कला एकीकृत गतिविधि –</p> <p>गुजरात की लोक कथाओं का परिचय पी पी टी द्वारा प्रस्तुत करें</p>	<ul style="list-style-type: none"> ◦ खेल और शिक्षा के महत्व से अवगत होंगे तथा दोनों में संतुलन बनाना सीखेंगे। ◦ विद्यार्थी गुजरात की प्रचलित लोक कथाओं से रूबरू होंगे । 	१०
३	परियोजना कार्य	<p>विषय :- मुहावरों पर एक मॉडल तैयार कीजिए ।</p>  <p>https://youtu.be/ptoeajMamA?si=MYNEkuE72J7yfVAh</p>	<ul style="list-style-type: none"> ◦ विद्यार्थी विभिन्न मुहावरों का अर्थ समझेंगे तथा वाक्य निर्माण करना सीखेंगे । जो भावी बोर्ड परीक्षा में सहायक होगा । 	५

४	आवधिक परीक्षा पाठ्यक्रम	<p>१अपठित गद्यांश</p> <p>स्पर्श भाग -२</p> <p>पाठ – बड़े भाई साहब</p> <p>पाठ – कबीर की सखियाँ</p> <p>पाठ – मीरा के पद , संचयन – पाठ – हरिहर काका</p> <p>व्याकरण – पदबंध , वाक्य रचना के आधार पर</p> <p>४ अनुच्छेद लेखन</p> <p>५ पत्र लेखन (औपचारिक) ।</p> <p>नोट :- आवधिक परीक्षा पाठ्यक्रम याद करें।</p> <p>◦ दिया गया ग्रीष्मावकाश कार्य अलग गृह कार्य पुस्तिका पर लिखें।</p>		
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SUBJECT: MATHEMATICS

S.NO	SKILLS	ACTIVITY	LEARNING OUTCOMES	MARKS
1	<p>CASE BASED QUESTIONS</p> <p>(Understanding, critical thinking, Analysing, Brainstorming)</p>	<p>[I] Honeycomb: While playing in garden, Sahiba saw a honeycomb and asked her mother what is that. She replied that it's a honeycomb made by honey bees to store honey. Also, she told her that the shape of the honeycomb formed is parabolic. The mathematical representation of the honeycomb structure is shown in the graph.</p> <div style="display: flex; justify-content: space-around;">   </div> <p>Based on the above information, answer the following questions.</p> <p>(i) Graph of a quadratic polynomial is in _____ shape.</p> <p>(ii) Write the expression of the polynomial represented by the graph.</p> <p>iii) If the sum of zeroes of polynomial $at^2 + 5t + 3a$ is equal to their product, then find the value of a.</p>	<p>Learners will be able to:</p> <p>Recall the basic concepts of polynomial, Apply relationship of coefficients and the zeroes, Form linear equations and find their solutions.</p>	10

[II] Hostel Monthly Charges:

A part of monthly hostel charges in a college is fixed and the remaining depends on the number of days one has taken food in the mess. When a student Anu takes food for 25 days, she has to pay 4500 as hostel charges, whereas another student Bindu who takes food for 30 days, has to pay 5200 as hostel charges.



Considering the fixed charges per month by ₹x and the cost of food per day by ₹ y, then answer the following questions.

- Represent the situation faced by both Anu and Bindu algebraically.
- Find out the type of solutions represented by above situations of linear equations.
- Find the cost of food per day and the fixed charges per month for the hostel.

2 ASSERTION AND REASONING QUESTIONS

(Recalling, Analysing, Understanding of concepts)

Directions: In the following questions, a statement of assertion (A) is followed by a statement of reasons (R). Mark the correct answer as:

- Both assertion and reason are true and reason is the correct explanation of assertion.
- Both assertion and reason are true but reason is not the correct explanation of assertion.
- Assertion is true but reason is false.
- Assertion is false but reason is true.

1. **Assertion (A):** The HCF of two numbers is 18 and their product is 3072. Then their LCM is 169.

Reason (R): If a, b are two positive integers, then $HCF \times LCM = a \times b$

2. **Assertion (A):** For all real values of c, the pair of equations $x - 2y = 8$ and $5x - 10y = c$ have a unique solution.

Reason (R): Two lines are given to be parallel. The equation of one of the lines is $4x + 3y = 14$, $12x + 9y = 5$

3. **Assertion (A):** $x^2 + 4x + 5$ has two real zeroes.

Reason (R): A quadratic polynomial can have at the most two zeroes.

4. **Assertion (A):** If the sum of the zeroes of the polynomial $x^2 - 2kx + 8$ is 2 then the value of k is 1.

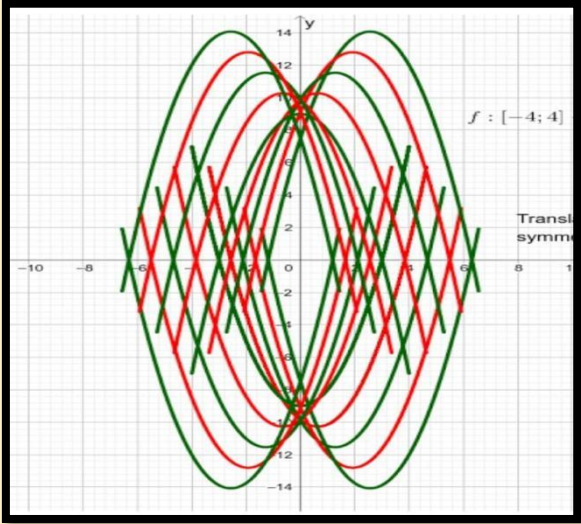
Reason (R): Sum of zeroes of quadratic polynomial $ax^2 + bx + c$ is $-\frac{b}{a}$

5. **Assertion (A):** \sqrt{x} is an irrational number, where x is a prime number.

Reason (R): Square root of any prime number is an irrational number.

Learners will be able to:

Relate given statements with their knowledge of the topic, Analyse the situation, Justify the reasons for the given statements

<p>3</p> <p><u>ART</u> <u>INTEG</u> <u>RATED</u> <u>ACTIV</u> <u>ITY</u> <u>OR</u> <u>PROJE</u> <u>CT</u> <u>WORK</u></p> <p>(Creativity, Application, Analysis)</p>	<p>Make Parabolic Art pattern on graph papers representing different geometrical shapes. OR you can also choose different quadratic polynomials and plot their solutions to get many parabolas on the same graph paper which depicts decorative painting or an art piece. For reference pictures and link are given below: https://youtu.be/DCP7wGN-IAE?si=DyD_GK-oZt2nH6iK https://youtu.be/1_TjxUsEvDk?si=cnrAIVjb2c6-8isB</p> 	<p>Learners will be able to:</p> <p>Represents quadratic polynomials graphically, Develop creativity, Identify the pattern of parabolas with respect to their polynomials</p>	<p>10</p>
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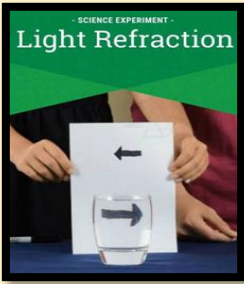


Note: ART INTEGRATION PROJECT, PAIRED STATE J&K AND GUJARAT

PT 1 SYLLABUS

SUBJECT	CHAPTER NO.	NAME OF CHAPTER
MATHS	1.	Real numbers
	2.	Polynomials
	3.	Pair of linear equations
	4.	Quadratic equations

SUBJECT: SCIENCE

S.NO	SKILLS	ACTIVITY	LEARNING OUTCOMES	MARKS
1.	WRITING	Draw the following: 1. Ray diagrams for obtaining images for different position of object in front of concave mirror. 2. Draw all the diagrams describing chemical reactions in all the activities of chemical equations. 3. Draw the models of various physiological body systems.	Verifies laws of reflection Locate pole & centre of curvature of mirror. Exhibits creativity in designing models using ecofriendly resources, such as working model of	5

			circulatory and excretory systems	
2.	SUBJECT ENRICHMENT ACTIVITIES	<p>Refraction:- Make a video on any one of the following</p> <ol style="list-style-type: none"> Mysterious arrows  An oily Disappearance  The straw problem  <p>Chemical Reactions Perform the activity</p> <ol style="list-style-type: none"> Design slime Milk plastic 	<p>Draw the diagram using A4 Sheets and past it in the Science notebook Apply laws of refraction in tracing the path of ray</p>	5
3.	PROJECT	<p>Frame a kaleidoscope or periscope. Also mention it's construction, working and advantages. OR Make a 2D or 3D model representing any two physiological systems of human beings. OR Make a video while Performing and observing the following reactions and classify them into:</p> <ol style="list-style-type: none"> Combination reaction Decomposition reaction Displacement reaction Double displacement reaction (i) Action of water on quicklime (ii) Action of heat on ferrous sulphate crystals (iii) Iron nails kept in copper sulphate solution (iv) Reaction between sodium sulphate and barium chloride solutions 	<p>Make model using waste materials at home.</p> <p>Use Scrap book</p>	5

Note: ART INTEGRATION PROJECT, PAIRED STATE J&K AND GUJARAT SYLLABUS FOR PT-I

S. No	COMPONENTS	CHAPTERS
1.	Chemistry	Chemical Reactions
2.	Physics	Light: Reflection

3.	Biology	Our environment Life Processes
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SUBJECT: SOCIAL SCIENCE

S.N O	SKILLS	ACTIVITY	LEARNING OUTCOMES	MA RK S
1.	SUBJECT ENRICHMENT ACTIVITY (Analysis, Critical thinking, problem solving, Observation)	Make and write ten questions and answers of one mark (one word or one sentence) of each lesson completed. Do map practice of Geography.	Students will be able to understand the concepts given in the chapters taught.	5
2.	PROJECT (Critical Thinking, Problem Solving, Organization)	Topic:- Consumer Rights (Students will make a file using A4 sheets) Content to be included: 1.Introduction. 2.What is a consumer? 3.What are consumer rights and responsibilities? 4.Factors causing consumer exploitation 5. Consumer Rights 6. Consumer movement 7. Importance of consumer rights 8.Government measures 9. Consumer courts 10. Certification marks in India. 11. Conclusion Also use the pictures from various sources and make a collage.	Students will be able to understand different consumer rights and their importance. Students will also know about the different measures taken by government for proper implementation of consumer rights.	10
3.	ART INTEGRATED PROJECT	Collect information about the minerals and energy resources found in Union Territory of J&K and Gujarat and Find the similarity between these two regions in resource distribution. Also show how these resources support the economy of the state. Make your project file attractive and beautiful using pictures.	Students will be able to compare and contrast the cultural differences and minerals and energy resources of Jammu and Kashmir and Gujarat.	10

Note: ART INTEGRATION PROJECT, PAIRED STATE J&K AND GUJARAT

PT 1 SYLLABUS

S.NO	COMPONENTS	CHAPTERS
1.	History	Ch 1 The rise of nationalism in Europe.
2.	Geography	Ch 1 Resources and development
3.	Political Science	Ch 1 Power sharing
4.	Economics	Ch 1 Development

SUBJECT: COMPUTER

S. NO	SKILLS	ACTIVITY	LEARNING OUTCOMES	MAR KS
1	WRITING (Recall, Understand and Remember)	Study and highlight the important terms with highlighter of <u>Unit – 4 (Entrepreneurship Skills – II) & Unit – 5 (Green Skills – II)</u> on your A.I textbooks and complete the worksheet of both the units on your computer notebook that has been already shared with you in your classes.	Students will be able to understand the topics read in Unit - 4 and Unit - 5	5
2	SUBJECT ENRICHMENT ACTIVITIES (Knowledge and Observation)	Preparing a <u>write-up</u> on an essay on experiences during a holiday trip. Make a <u>scrap book</u> .	Students will be able to observe and understand the concept of Communication techniques.	5
3	PROJECT (Creativity, Skills, Experimentation)	*Identify the problems related to <u>sustainable development</u> in the community. Make a <u>report with pictures</u> and paste it in your class notebook. *Search about different <u>Stress Management Techniques</u> that we are using now days in our day to day life from the internet. Paste the pictures with explanation in your computer notebook.	Student will be able to understand the concept of sustainable development and Stress Management Skills.	10

PT 1 Syllabus

S. No	Chapters
1.	Communication skills - II
2.	Self management skills - II