

**ARMY PUBLIC SCHOOL , MEERUT CANTT.**

**PEDAGOGICAL CURRICULUM PLANNER, 2022-23**

**CLASS: VII**

**SUBJECT:**

**SCIENCE**

BOOKS: NCERT			PUBLISHER: NCERT		
MONTH	TOPIC & No. OF PERIODS	21 <sup>ST</sup> CENTURY SKILLS INTEGRATED	METHODOLOGY, INSTRUCTIONAL STRATEGIES & ACTIVITIES PLANNED	TEACHING LEARNING MATERIAL	LEARNING OUTCOME
APRIL 2022	21 CH-1 Nutrition in plants CH-2 Nutrition in animals	Critical thinking Information literacy	Explanation Discussion PPT	Text books Smart board Animation videos Pictures	* Lwbat understand the how plants prepare their own, mode of nutrition in various kinds of plants. * Lwbat understand the mode of nutrition in animals
MAY2022	23 CH-3 Fibre To Fabric	Critical thinking Information literacy	Discussion Explanation	Text books Smart board Animation videos PPT	*Lwbat understand the processes involved in making fabric from fibre also they will learn about the characteristics and uses of different types of fabrics.
JULY2022	23 CH-4 Heat CH-5 Acids, Bases and salt CH-6 Physical and Chemical Changes	Information literacy Experiential learning Critical thinking	Discussion Demonstration Explanation	Text books Smart board Animation videos PPT	*Lwbat understand the concept of heat transfer and the phenomenons involved. * Lwbat understand the different types of

					Substances (acids,bases ,salts) and their characteristics properties as well. * Lwbat understand as well as classify the different types of changes taking place in our environment.
AUGUST2022	22 CH-7 Weather Climate and Adaptation of animals to Climate CH-8 Wind, Storms and Cyclones	Critical thinking Logistic learning	Explanation Demonstration Ppt	Text books Smart board Animation videos	* Lwbat understand adaptations of different animals towards climatic changes * Lwbat understand the phenomena that causes winds, storms and cyclones.
SEPTEMBER 2022	25 CH-9 Soil	Critical thinking Analytical thinking	Discussion Demonstration Explanation	Text books Smart board Animation Videos	*LwbAt understand the formation of soil, different types of soil and their properties.
TERM 1					
OCTOBER2022	15 CH-10 Respiration in organisms CH-13 Time and Motion	Critical thinking Logistic thinking	Discussion Explanation	Text books Smart board Animation Videos	* LwbAt understand how respiration occurs in humans. * Lwbat understand about motion and how it is related with time.

NOVEMBER2022	24 CH-14 Electric Current and its Effects CH-16 Water: A Precious Resource	Critical thinking Experiential learning	Explanation Demonstration	Text book Smart board Animation Videos	* Lwbat understand about electric current and its effect * Lwbat learn about the importance of water and how it could be conserved.
DECEMBER2022	20 CH-11 Transportation in animals and plants CH-12 Reproduction in plants	Problem solving Critical thinking	Discussion Demonstration Experiential learning	Text books Smart board Animation Videos	* Lwbat understand the concept of transportation in both plants and animals * Lwbat understand the process of reproduction in plants.

JANUARY2023	21 CH-15 Light CH-17 Forests: Our Lifeline REVISION	Critical thinking problem solving	Demonstration Discussion	Text books Smart board Animation Videos	* Lwbat learn about light and its propogation. * Lwbat learn how forest acts as a lifeline for living beings.
FEBRUARY2023	CH-18 Wastewater Story REVISION	Problem solving Logical thinking	Discussion Explanation	Text books Smart board Animation Videos	* Lwbat learn about wastewater and its treatment.
TERM 2					

**ARMY PUBLIC SCHOOL , MEERUT CANTT.**

**PEDAGOGICAL CURRICULUM PLANNER, 2022-23**

**CLASS: VII**

**SUBJECT: COMPUTER**

<b>BOOKS: IT PLANET CODE BOT</b>				<b>PUBLISHER: PM PUBLISHERS PVT. LTD.</b>		
<b>MONTH</b>	<b>TOPIC &amp; No. OF PERIODS</b>	<b>21<sup>ST</sup> CENTURY SKILLS INTEGRATED</b>	<b>INTEGRATION WITH OTHER SUBJECTS</b>	<b>METHODOLOGY, INSTRUCTIONAL STRATEGIES &amp; ACTIVITIES PLANNED</b>	<b>TEACHING LEARNING MATERIAL</b>	<b>LEARNING OUTCOME</b>
<b>APRIL 2022</b>  <b>21 Days</b>	CH-1 NUMBER SYSTEM  6 Periods	Organizational skills Presentation skills	Mathematics	Explanation, Demonstration  <b>Activity</b> : Make a presentation on "Number System"	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"><li>● Understand number system and its types</li><li>● Understand conversion of one number system into another</li><li>● Understand bits and bytes.</li></ul>
	CH-2 COMPUTER VIRUS  3 Periods	Creative writing skills Typing Skills Information searching skills		Explanation, Demonstration  <b>Activity</b> : Create a document on Trojan Horse		<ul style="list-style-type: none"><li>● Understands computer virus and its types</li><li>● Able to identify different types of viruses.</li></ul>

						<ul style="list-style-type: none"> <li>● Learn about antivirus program and its features</li> <li>● Learn how to take precautions against computer virus.</li> </ul>
<b>MAY2022</b> <b>23 Days</b>	CH-3 ANIMATE-LAYERS AND ANIMATION  9 Periods	Creativity Skills Animation Skills Adaptability Skills	Science	Explanation, Demonstration, Animation Storyteller  <b>Activity :</b> Draw a paper plane in Animate and make it fly in different directions	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>● Understand how to import graphics in Adobe Animate.</li> <li>● Perform different functions on layers.</li> <li>● Create symbols and instances.</li> <li>● Add animation and tweening effects</li> </ul>
<b>JULY2022</b> <b>23 Days</b>	CH-4 PHOTOSHOP - INTRODUCTION  9 Periods	Image editing Skills Creativity Skills		Explanation, Demonstration  <b>Activity :</b> Open image and do some functions on it like Changing the size, Exposure correction and Applying filter.	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>● Understand the features of Photoshop.</li> <li>● Understand the components of the Photoshop window.</li> <li>● Learn how to use various tools of Photoshop.</li> <li>● Identify various color modes and filters</li> </ul>
<b>AUGUST2022</b> <b>22 Days</b>	CH-5 PHOTOSHOP-WORKING WITH LAYERS  9 Periods	Creativity Skills	Science	Explanation, Demonstration	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>● Learn to create layers and add images to it.</li> </ul>

				<b>Activity :</b> Open an image of sky in photoshop to create a new layer and do given functions.		<ul style="list-style-type: none"> <li>• Understands how to work with layer</li> <li>• Learn various blending modes.</li> <li>• Save the photoshop image.</li> </ul>
<b>SEPTEMBER 2022</b> <b>25 Days</b>	6 Periods HALF YEARLY EXAMINATION	REVISIONS OF TERM-1 SYLLABUS				
<b>TERM 1</b>	CH-1 NUMBER SYSTEM CH-2 COMPUTER VIRUS CH-3 ANIMATE - LAYERS AND ANIMATION CH-4 PHOTOSHOP - INTRODUCTION CH-5 PHOTOSHOP - WORKING WITH LAYERS					
<b>OCTOBER2022</b> <b>15 Days</b>	CH-6 INTERNET-ETHICS AND SAFEGUARD  3 Periods	Organizational Skills Information searching skills Presentation skills		Explanation, Demonstration  <b>Activity :</b> Create a presentation on Ethical Hacking	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>• Understand how to protect yourself on the web.</li> <li>• understands and learns the role of parents and teachers in protecting children from the digital world.</li> </ul>

	CH-7 HTML 5 - CREATING WEB PAGES  3 Periods	programming skills technology skills	Social Science	Explanation, Demonstration  <b>Activity</b> : Write the HTML code for a given topic.		<ul style="list-style-type: none"> <li>• Understand the elements of HTML5 such as tags, attributes, etc.</li> <li>• Learn basic building -blocks of HTML5 tags for creating web pages.</li> </ul>
<b>NOVEMBER2022</b>  24 Days	CH-7 HTML 5 - CREATING WEB PAGES  4 Periods	Programming skills Technology skills		Explanation, Demonstration  <b>Activity</b> : Write the HTML code for a given topic  Explanation, Demonstration	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>• Understand and learn about tags for formatting the text.</li> </ul>
	CH-8 HTML 5 - IMAGES, LINKS AND TABLE  5 Periods	Time management skills Programming Skills		Explanation, Demonstration  <b>Activity</b> : Open notepad and write the HTML code to insert a picture of school from clip art, , link of school		<ul style="list-style-type: none"> <li>• Understand and learn about the tags used for inserting images.</li> <li>• Create a numbered and bulleted list.</li> </ul>



				website, your name and create time table		
<b>DECEMBER2022</b>  <b>20 Days</b>	CH-8 HTML 5 - IMAGES, LINKS AND TABLE  4 Periods          CH-9 PYTHON - CONDITIONAL CONTROL STRUCTURES AND TURTLE  4 Periods	Time management skills Programming Skills      Programming Skills Critical-thinking skills Problem Solving Skills	Mathematics Science	Explanation, Demonstration  <b>Activity</b> : Open notepad and write the HTML code to insert a picture of from clip art and insert links of google, cbse website, and your school website      Explanation, Demonstration  <b>Activity</b> : Find the output of given code.	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>● Understand and Learn about the tags used for linking the web pages.</li> <li>● understand how to insert a table in a web page.</li> <li>● Understand and identify operators and operator precedence</li> <li>● Understand different types of statements</li> <li>● Understand different types of conditional control structures.</li> </ul>
<b>JANUARY2023</b>  <b>21 Days</b>	CH-9 PYTHON - CONDITIONAL CONTROL STRUCTURES AND TURTLE  5 Periods	Programming Skills Critical-thinking skills Problem Solving Skills	Maths	Explanation, Demonstration	Textbook, SmartBoard, Multimedia contents	<ul style="list-style-type: none"> <li>● Understand and learn how to program in Python using Turtle.</li> </ul>

	CH-10 AI FOR SUSTAINABLE DEVELOPMENT GOALS  4 Periods	Pro-social skills	Social Science Science	<b>Activity</b> : Find the output of given code.  Explanation, Demonstration  <b>Activity</b> : Game : Sustainable development goals		<ul style="list-style-type: none"> <li>● Understand sustainable development and its pillars.</li> <li>● Understand 17 SDGs and role of AI in achieving these goals.</li> <li>● Understand and learn about ethical concerns of AI related to data.</li> </ul>
<b>FEBRUARY 2023</b>  <b>21 Days</b>	6 Periods  ANNUAL EXAMINATIONS START	Revision of Term 2 Syllabus				
<b>MARCH 2023</b>  <b>24 Days</b>	Exam of Term2					
<b>TERM 2</b>	CH-6 INTERNET-ETHICS AND SAFEGUARD CH-7 HTML 5 - CREATING WEB PAGES CH-8 HTML 5 - IMAGES, LINKS AND TABLE CH-9 PYTHON - CONDITIONAL CONTROL STRUCTURES AND TURTLE CH-10 AI FOR SUSTAINABLE DEVELOPMENT GOALS					

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**PEDAGOGICAL CURRICULUM PLANNER, 2022-23**

**CLASS: VII**

**SUBJECT:GK**

BOOKS: GK Planet			PUBLISHER: PM Publishers Pvt. Ltd.		
MONTH	TOPIC & No. OF PERIODS	21 <sup>ST</sup> CENTURY SKILLS INTEGRATED	METHODOLOGY, INSTRUCTIONAL STRATEGIES & ACTIVITIES PLANNED	TEACHING LEARNING MATERIAL	LEARNING OUTCOME
APRIL 2022 21 days	<b>Unit-1Flora and Fauna</b> 1. Exotic fruits 2. National trees 3. Miss leading names 4. Dinosaurs <b>Unit-2 Science and Technology</b> 5. Blood quiz 6. Branches of science 7. Corona virus and others pandemics 8. India in space	Interpretation, Interrogative, Critical thinking and reasoning. Understanding and comparing, retrospective analyz ation . IQ improvement skills, Social knowledge.	Lecture method, multimedia approach, problem solving, Project method, source method, discussion method.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to know about the different spices of plants, Discover amazing facts about primates & human body.
MAY2022 23 days	<b>Unit-3 exploring India</b> 9. Hall of Fame 10. Medieval India	Institutional knowledge, Geographical knowledge.	Lecture method, Multimedia approach, Problem solving, project method, source	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to develop knowledge and courtesy words the major civilian awards,

	11. New union territories 12. Tribes of India		method, discussion method.		heritage and ancient of India.
JULY2022 23 days	<b>Unit-4 exploring the word</b> 13. South America 14 founding fathers 15.A Glimpse of 20thCentury 16. Business tycoons <b>ASSIGNMENT-1</b> <b>Unit-5 sports and entertainment</b> 17.FIFA World Cup 18.Gymnastics	Use of qualitative and quantitative data, Graphical skills, Geographical knowledge.	Lecture method, multimedia approach, problem solving, project method, source method, discussion method.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to know about the diverse traditions, culture& social reforms of different countries.
AUGUST2022 22 days	19. Legends of Indian cinema 20.Indian Vocalists <b>Unit-6 language and literature</b> 21.Vedas:Ancient Scriptures 22. Vocab test 23.Abbreviations and Acronyms 24.Mythical creatures	General awareness, critical thinking, scientific thinking, Linguistic skills.	Lecture method, multimedia approach, problem solving, project method, source method, discussion method.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to develop curiosity towards performing, art, sports and literature.
SEPTEMBER 2022 25 days	<b>Unit-7 mental ability</b> 25. Verbal reasoning 26. Reasoning in AI 27. Integrated learning	Logical reasoning, General awareness, Value education, social skills.	Logical reasoning, general awareness, value education, social skills.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to develop analytical and reasoning skills.

	<b>Unit -8 life skill and personality development</b> 28. Data interpretation 29. Cyber security 30. Martial Art <b>ASSIGNMENT-II</b> <b>Quiz Contest-1</b>				
TER4M 1	Half yearly Examination start (19-30September)				
OCTOBER2022 15days	<b>Unit-1 flora and fauna</b> 31. Rare Flowers 32. Forest of the world 33. Endemic to India 34. Amazing animals <b>Unit -2 Science and Technology</b> 35. In the science lab	Interpretation, interrogative, critical thinking and reasoning, pictorial understanding	Interpretation ,interrogative, critical thinking and reasoning, pictorial understanding.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to develop awareness about organic farming ,unique spices of the planet.
NOVEMBER2022 24days	36. Famous inventors 37. Computer Tech -terms 38 National disasters <b>Unit-4 Exploring India</b> 39. Famous Indian Fairs 40. Lakshadweep 41. Indian painters 42. Social Movements <b>Unit-4 Exploring the world</b> 43. Major Waterfalls	IQ improvement skills, General knowledge, Social knowledge, institutional knowledge. Use of graphical skills, cartography skills, mapping skills.	Lecture method ,multimedia approach ,problem solving ,project method ,source method ,discussion method.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to discover about latest technologies. They will also be able to develop social thinking and geographical knowledge.

	44. Group of nations 45. Historical personalities				
DECEMBER2022 20days	46. Modern Bridges <b>ASSIGNMENT-III</b> <b>Unit-5 sports and entertainment</b> 47. Football Leagues 48. 2020 summer Olympics 49. Music Genres 50. Indian film directors <b>Unit-6 language and literature</b> 51. Words of Foreign Origin	General awareness, critical thinking, scientific thinking, linguistic skills.	Lecture method, multimedia approach, problem solving, project method, Soch method, discussion method.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to improve their general knowledge and happenings in contemporary world. Interest in music and literature will also be developed.
JANUARY2023 21days	52. Literary Awards of India 53. Movies on novels 54. Top magazines <b>Unit-7 mental ability</b> 55. Anagram 56.Non- verbal reasoning 57.Venn Diagram <b>Unit-8 life skill and personality development</b>	Logical reasoning, general awareness ,data analysis ,pictorial skills.	Lecture method ,multimedia approach, problem solving ,project method ,source method, discussion method.	Text Book, Smart Board (internet), Maps, Altools(google earth, google lens, loopy)	Students will be able to develop analytical and reasoning skills.

	58. Wildlife conservation 59. Consumer rights 60. AI-based Apps <b>ASSIGNMENT-IV</b> <b>Quiz Contest-II</b>				
FEBRUARY2023 21 days	Revision test				
TERM 2	Annual Examination Starts 20 february-6 march 2023				