

**ARMY PUBLIC SCHOOL , MEERUT CANTT.**

**PEDAGOGICAL CURRICULUM PLANNER, 2022-23**

**CLASS: VIII**

**SUBJECT: SCIENCE**

<b>BOOKS:</b> N.C.E.R.T. CLASS VIII SCIENCE TEXT BOOK, ACTIVITY PLUS IN SCIENCE			<b>PUBLISHER:</b> N.C.E.R.T. Publisher, FULLMARKS.		
<b>MONTH</b>	<b>TOPIC &amp; No. OF PERIODS</b>	<b>21<sup>ST</sup> CENTURY SKILLS INTEGRATED</b>	<b>METHODOLOGY, INSTRUCTIONAL STRATEGIES &amp; ACTIVITIES PLANNED</b>	<b>TEACHING LEARNING MATERIAL</b>	<b>LEARNING OUTCOME</b>
APRIL 2022	CH 1- CROP PRODUCTI ON AND MANAGE MENT CH 2- MICROORGANISMS: FRIEND AND FOE <b>(21 DAYS)</b>	DIGITAL AGE LITERACY, INVENTIVE THINKING, EFFECTIVE COMMUNICATION, CRITICAL THINKING, CREATIVITY, COLLABORATION.	LECTURE METHOD, VISUALIZAT ION, PROBLEM SOLVING, DEMONSTA TION METHOD.	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, PERMANENT SLIDES, COMPOUND MICROSCOPE.	LWBAT TO KNOW ABOUT FEEDING A GROWING POLPULATION, LIVELIHOOD FOR FARMERS, PROTECTING THE ENVIRONMRNT. COMMERCIAL USE OF MICROBES, ECO-FRIENDLY MICROBES.

MAY2022	CH 3 - SYNTHETIC FIBRES AND PLASTICS <b>(23 DAYS)</b>	INFORMATION LITERACY, CREATIVITY/CREATIVE THINKING, DIGITAL AGE LITERACY.	ACTIVITY BASED LEARNING, LECTURE, EXPERIMENT,	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD.	LWBAT TO KNOW ABOUT HOW DIFFERENT TYPES OF SYNTHETIC FIBRES ARE MADE, GET IDEA ABOUT THE CHARACTERISTICS OF DIFFERENT TYPES OF SYNTHETIC FIBRES.
JULY2022	CH - 4 MATERIALS: METALS AND NON-METALS CH - 5 COAL AND PETROLEUM CH - 6 COMBUSTION AND FLAME <b>(23 DAYS)</b>	METACOGNITION, CRITICAL REASONING, DIGITAL AGE LITERACY, AUTHENTIC LEARNING.	PROBLEM SOLVING, PROJECT METHOD, DEMONSTRATION METHOD, CRITICAL REASONING.	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, SODIUM METAL IN KEROSENE, WAX CANDLE.	LWBAT UNDERSTAND THE PROPERTIES OF METALS & NON-METALS, LWBAT GENERALISE ALL PROPERTIES OF METALS & NON METALS. FORMATION OF COAL & PETROLEUM, FOSSIL FUELS, FRACTIONAL DISTILLATION, TYPES OF COMBUSTION, VARIOUS ZONES OF FLAME.

AUGUST2022	CH 7- CONSERVATION OF PLANTS AND ANIMALS CH 8 - CELL: STRUCTURE AND FUNCTION <b>(22 DAYS)</b>	INVENTIVE THINKING, EFFECTIVE COMMUNICATION, CRITICAL THINKING, CREATIVITY, DIGITAL AGE LITERACY.	ACTIVITY BASED LEARNING, LECTURE, EXPERIMENT, DEMONSTRATION METHOD	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, PERMANENT SLIDES, COMPOUND MICROSCOPE.	LWBAT KNOW ABOUT THE IMPORTANCE OF PLANTS & ANIMALS AND THEIR PRODUCTS, VARIOUS TYPES OF BIOSPHERE RESERVES, RED DATA BOOK. HISTORY ABOUT THE ORIGIN OF CELL, VARIOUS TYEPS OF CELL THEIR SHAPES, SIZES & COMPONENTS OF CELL.
SEPTEMBER 2022	CH 9 - REPRODUCTION IN ANIMALS <b>(25 DAYS)</b> <b>H.Y. RIVISION (10 DAYS)</b>	METACOGNITION, CRITICAL REASONING, AUTHENTIC LEARNING, DIGITAL AGE LITERACY.	DIRECT LEARNING, CROSS DISCIPLINARY TEACHING	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, PERMANENT SLIDES, COMPOUND MICROSCOPE.	LWBAT UNDERSTAND THE PROCESS AND TYPES OF REPRODUCTION IN ANIMALS, REPRODUCTIVE ORGANS.
TERM 1	All topics covered till September Ch - 1,2,3,4,5,6,7,8 and 9				

OCTOBER2022	CH - 10 REACHING THE AGE OF ADOLESCENCE CH - 11 FORCE AND PRESSURE	FLEXIBILITY, INITIATIVE, DIGITAL AGE LITERACY, SOCIAL SKILLS.	ACTIVITY BASED LEARNING, LECTURE, DEMONSTRATION METHOD	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, BOARD PINS, WOODEN BLOCK, IRON NAIL.	LWBAT UNDERSTAND ABOUT THE ADOLESCENCE, PUBERTY IN MALE & FEMALE, SIGN OF REPRODUCTIVE MATURITY IN MALE & FEMALE, SEX DETERMINATION IN HUMANS. TYPES OF FORCE AND PRESSURE WITH THEIR APPLICATIONS IN DAILY LIFE.
NOVEMBER2022	CH 12- FRICTION Ch 13 - SOUND	CREATIVE THINKING, CRITICAL REASONING, AUTHENTIC LEARNING, DIGITAL AGE LITERACY.	DEMONSTRATION METHOD, ACTIVITY BASED LEARNING	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, DUSTER, CHALK, TABLE SURFACE.	LWBAT TO KNOW ABOUT FRICTIONAL FORCE, APPLICATIONS OF FRICTION IN DAILY LIFE, FRICTION A NECESSARY EVIL. SOUND, PRODUCTION OF SOUND, MEASUREMENT OF SOUND (AMPLITUDE,PITCH, FREQUENCY).

DECEMBER2022	CH 14- CHEMICAL EFFECTS OF ELECTRIC CURRENT CH 15- SOME NATURAL PHENOMENA CH 16- LIGHT	CREATIVE THINKING, INVENTIVE THINKING, AUTHENTIC LEARNING, DIGITAL AGE LITERACY.	ACTIVITY BASED LEARNING, DEMONSTRATION METHOD.	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD, PRISM, PLANE MIRROR.	LWBAT RECALL EXAMPLE OF GOOD & BAD CONDUCTORS, LIQUID THAT CONDUCT ELECTRICITY. PROCESS OF NATURAL PHENOMENA. REFLECTION OF LIGHT LAWS OF REFLECTION, TYPES OF MIRRORS, APPLICATION OF MIRRORS.
JANUARY2023	CH 17- STARS AND THE SOLAR SYSTEM CH 18- POLLUTION OF AIR AND WATER	CREATIVITY/CREATIVE THINKING, INVENTIVE THINKING, DIGITAL AGE LITERACY.	LECTURE METHOD, DIRECT LEARNING, ACTIVITY BASED LEARNING.	SMART BOARD, PPT, ANIMATIONS, SHORT VIDEOS, WHITE BOARD.	LWBAT TO KNOW ABOUT SOLAR SYSTEM, CONSTELLATIONS, METEOR & METEORITES. VARIOUS TYPES OF POLLUTANTS OF AIR & WATER, PURIFICATION OF WATER, RAIN WATER HARVESTING.
FEBRUARY2023	REVISION OF ALL THE CHAPTERS				
TERM 2	All topics covered after half yearly exams (+ UT-2 syllabus + 10% Of UT-1 and Half yearly syllabus).				

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**PEDAGOGICAL CURRICULUM PLANNER, 2022-23**

**CLASS: VIII**

**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>	Chapter-1: Computer Network  6 Periods	Organizational and Presentation Skills	Physics	Explanation, Demonstration. <b>Activity:</b> Make a presentation on "Computer Network" using relevant pictures.	Smart Board, Text Books, Multimedia contents.	1.Understand Communication, communication Channel. 2.Understand the Network Devices and Network Topologies.
<b>MAY 2022</b>  <b>23 Days</b>	Chapter-2 Access- Creating a Database  6 Periods	Data Management Skills, Logical Skills	Mathematics, Social Science	Explanation, Practical Demonstration. <b>Activity:</b> Create a table using the Design View which is given on the page no 37.	Smart Board, Text Books, Multimedia contents.	1.Understand Database, table, field, record. 2.Create Table, Understand Design view, Datasheet view and Data types.
<b>JULY 2022</b>  <b>23 Days</b>	Chapter-3 Access- Tables and Forms  6 Periods	Data Management Skills, Logical Skills	Mathematics, Social Science	Explanation, Demonstration. <b>Activity:</b> Create a database which is given on page no 54.	Smart Board, Text Books, Multimedia contents.	1.Understand to sort records, apply filter. 2.Understand Filter using "OR" and "And" 3.Understand to establish relationship between two tables.

<b>AUGUST 2022</b> <b>22 Days</b>	Chapter-4 Access- Query and Report  5 Periods	Data Management Skills, Logical Skills	Mathematics, Social Science	Explanation, Demonstration. <b>Activity:</b> Create a database “Company” which is given on page no 66.	Smart Board, Text Books, Multimedia contents.	1.Understand query window. 2.Understand Wildcards, compound operators, sorting, deleting field.
<b>SEPTEMBER 2022</b> <b>25 Days</b>	Chapter-5 Openshot Video Editor  5 Periods	Creativity and Animation Skills	Art, English	Explanation, Demonstration. <b>Activity:</b> Create a movie on a poet from your English Literature book. Activity is given on page no. 79	Smart Board, Text Books, Multimedia contents.	1.Understand movie formats, adding transitions, different artistic effects and creating a movie.
<b>TERM 1</b>	REVISIONS OF TERM-1 SYLLABUS  HALF YEARLY EXAMINATION					
<b>OCTOBER 2022</b> <b>15 Days</b>	Chapter-6 E- Commerce and Blogging  3 Periods	Organizational Skills Information searching skills Presentation skill	Social Science, General Knowledge	Explanation, Demonstration. <b>Activity:</b> With the help of the internet, search information on “conservation of plants and animals”. Save the information and create a blog.	Smart Board, Text Books, Multimedia contents.	1.Understand E-commerce, E-commerce Business Models, E-Retailing. 2. Understand Blogging, create a blog, post a blog and vie a blog.
<b>NOVEMBER 2022</b> <b>24 Days</b>	Chapter-7 HTML 5-Form, Multimedia and CSS  7 Periods	programming skills technology skills	Mathematics, Art	Explanation, Demonstration. <b>Activity:</b> Type the HTML code to get the given output	Smart Board, Text Books, Multimedia contents.	1.Understand to create forms. 2.Understand to add multimedia files. 3. Creating Cascading style sheets.

				(page no. 111) in the web browser		
<b>DECEMBER 2022</b>  <b>20 Days</b>	Chapter -8 App Development  6 Periods	programming skills technology skills	Mathematics, Art	Explanation, Demonstration. <b>Activity:</b> Create an app on “computer parts” given on page no 131	Smart Board, Text Books, Multimedia contents.	1.Understand Apps, Types of Apps, Categories of Apps and Developing an App using MIT App Inventor
<b>JANUARY 2023</b>  <b>21 Days</b>	Chapter-9 Python-Looping and Tkinter GUI  6 Periods  Chapter-10 Future Possibilities of AI 3 Periods	Technology Literacy programming skills technology skills  Learn Training and Development Skills	Mathematics  Mathematics, Science, Social Science, Languages	Explanation, Demonstration. <b>Activity:</b> Type and execute the programs given on page no. 152  Explanation, Demonstration. <b>Activity:</b> Perform the activity given on page no. 162	Smart Board, Text Books, Multimedia contents.  Smart Board, Text Books, Multimedia contents.	1.Understand looping, Types of looping and Tkinter library in python.  1.Understand evolution of AI, Future possibilities of AI, Ethical concerns related to implications of AI.
<b>FEBRUARY 2023</b>  <b>21 Days</b>	Revision of Term 2 6 Periods  ANNUAL EXAMINATIONS START					
<b>MARCH 2023</b>  <b>24 Days</b>	Exam of Term2					
<b>TERM 2</b>	TERM-2 SYLLABUS					
	Chapter-6 E- Commerce and Blogging Chapter-7 HTML 5-Form, Multimedia and CSS Chapter -8 App Development Chapter-9 Python-Looping and Tkinter GUI Chapter-10 Future Possibilities of AI					