

# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Computer Science

Class: 3

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
June	How Does A Computer works	Students will be able to *Understand the principle of working of computer (IPO cycle).	Children will become aware that the connectivity of electronic devices should be properly connected and should be handled with care.	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2. Logical Thinking	Computer , Text book and PPT	* Activity: Draw daily life example in the form of picture mentioning input, process and output.	*Children Know about IPO cycle. *Connecting real life situations to the system.
July	Parts Of A Computer	Students will be able to *Understand the working and function of different parts of a computer * Know about different input and output devices		SKILLS: 1.Understanding 2. Application Values: 1.Orderliness	Computer and Text book	*Activity: Functioning of different parts will be demonstrated by students. * Activity : Draw and Label the diagram of CPU in the worksheet.	*Recognize basic parts of computer. *Working of different parts of computer
August	Operating A Computer	Students will be able to *Make the computer system convenient to use in an efficient manner. *Switch on/off systematically * Manage the software's in the computer system		SKILLS: 1.Understanding Values: 1.Orderliness	Computer , Text book and PPT	* Activity : Children will listen the voice from computer through microphone and headphone.	*Systematically switching on/off a computer. *Know about working of microphone and headphone
October	Using the mouse with paint	*Students will create a picture in Tux paint using their imagination. *Understand the term AI and know about real life example of AI *To make them aware of physical exercises while working on a computer	*Students will be aware of tools used in Tux paint and how to apply them. *Creating their own drawing *Students learn What is AI and Examples of AI *Students learn small exercises which are helpful to keep them fit.	Skills: Understanding, Application Values: Creative Thinking, Imagination	Computer , Text book and Tux paint Software	* Activity 1 :Draw a Scenery of your choice using Tux Paint tools. Activity 2 : "Save Environment/ Any Festival of their choice)" (ICT-EVS) *Tools of Tux paint Worksheet • Sophia Robot • Self-driving cars •*Eg: Spot Robot(humanoid robot)	*Students learn how to use tools in Tux paint to create their own senary. *Understands Full form of AI and Examples *Know how to keep their body fit while working on computer.

<p><b>December</b></p>	<p>Using the keyboard with word pad</p>	<p>Students will be able to          *Start word          *Understand the parts of MSWord *Create a document *Typing text in document *Save a document</p>	<p>*To make them how to type in and save their work. *Giving assignment and saving in the word</p>	<p>Skills: Application          Values: Creative Thinking</p>	<p>Computer &amp; Text book</p>	<p>* Activity 1:Learn about the different between delete keys and space keys. * Activity 2 :Learn how to types capital letters and the symbol placed on the upper part of keys. * Activity 3:Type a " Poem" by using font, font size and style of your choice (ICT - English)</p>	<p>*Students understand how to use MS Word to type their text in a document and save. *How to use Capital letters and symbols on the number</p>
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# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Computer Science

Class: 4

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
June	The computers	Students will be able to *Understand difference between computer and human *Recognize the uses of various computers	To make them learn to co-operate with group partners as they are having assignment to be done in groups	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	* Activity: Role play of a Man and a Computer, Desktop , Laptop. *List out the places where we use computers *Worksheet	Students * Understand the difference between Computer and Human * Apply the knowledge how they help us to do many activities * Describe different types of computers
July	Me and my computer	*Learn about computer parts - To recognize the uses of various computer parts. *Know the working and function of different a parts of computer.	*Children will become aware that the connectivity of the electronic devices should be done properly to work with them and devices should be handled with care.	Skills: understanding, application	Text book, computer and PPT	*Activity 1 :Children will draw the labeled diagram of CPU in their note book	*Systematicall y switching on/off a computer. *Know about working of microphone and headphone
August	How Does A Computer works	Students will be able to *Understand the principle of working of computer (IPO cycle).	Children will become aware that the connectivity of electronic devices should be properly connected and should be handled with care.	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2. Logical Thinking	Computer , Text book and PPT	* Activity: Draw daily life example in the form of picture mentioning input, process and output.	*Children Know about IPO cycle. *Connecting real life situations to the system.
october	Messaging with the keyboards	Students will be able to *Introduce keyboard as input device and role of keyboard in computer functioning. *Learn about the different types of keys	To make them aware how to use electronic devices safely. Keyboard: pressing the keys of the keyboard gently.	SKILLS: 1.Understanding 2. Application Values: 1.Handling device with care	Computer , Text book , PPT and Keyboard	* Activity 1 :Children will be asked to fill different colours in different types of keys in practice sheets. * Activity 2 :Functioning of different keys will be demonstrated in Lab. * Activity 3 :Use Calculator app and complete the given worksheet. (ICTMath)	*Children will become familiar with functioning of different keys. *Children will learn how to use numeric keys and arrow keys.

<b>November</b>	Mouse and Working with Windows	<p>Students will be able to</p> <ul style="list-style-type: none"> <li>*Understand the different functions of a mouse (right click, left click, scroll)</li> <li>*Develop fine motor skills to better control the mouse</li> <li>*Understand the role of system software and OS</li> <li>*working with windows and its features. its functions .</li> <li>*To know the use of taskbar and start button navigation and some common tasks in Windows</li> </ul>	<p>Mouse : Don't pull the mouse and click it gently.</p> <ul style="list-style-type: none"> <li>*To make children aware to keep their files or folders in a systematic way and should be named &amp; placed properly.</li> <li>*To make them aware not to use others files and folders without their permission.</li> </ul>	<p><b>SKILLS:</b></p> <p>1.Understanding 2. Application Values:</p> <p>1.Handling device with care</p> <p>Skills: understand ing, application Values : systematization, logical thinking, creative thinking</p>	Computer , Text book , PPT and Mouse text book and computer	<ul style="list-style-type: none"> <li>* Activity 1 :Using the mouse children practice how to click, double click, drag and scroll.</li> <li>* Activity 2 :Draw a picture of your choice in paint using mouse</li> <li>* Activity 3 :Label the parts of mouse given in worksheet.</li> </ul> <p>Children will create their own folder in D drive. Children will add gadgets of their choice to desktop.</p>	<ul style="list-style-type: none"> <li>*Students Know how to use mouse (click, drag, scroll and double click)</li> <li>Differentiate between hardware and software</li> <li>*Understand the role of OS.</li> </ul>
<b>December</b>	Computers in different fields	<p>Students will be able to understand how computers are used in different fields like banks, schools, colleges, hospitals, shops etc</p>		<p><b>SKILLS:</b></p> <p>1.Understanding 2. Application Values: 1.Orderliness 2. Logical Thinking</p>	Text book, computer and PPT	<ul style="list-style-type: none"> <li>* Activity: Draw daily life example in the form of picture of computers using in different fields</li> </ul>	Children will learn how to use computers in different fields
<b>January</b>	Multimedia	<p>Students will be able to understand how to input, edit, and output graphics ,sounds and videos</p>	<p>Students can be able to record their voice,play DVD, play CD, and making animation</p>	<p>Skills: 1.understanding 2. application and orderliness of logical thinking</p>	Text book, computer and PPT CD, DVD, Pen drive	<p>using the CD /DVD children will practice how to insert in to drive and listen audio and see video</p>	Children will came to know how to insert CD/DVD to listen audio and to see videos in computer
<b>February</b>	Computer words	<p>Students will be able to identify the typical words like Abacus ,Graphics , HTML, RAM, window etc</p>	<p>Students can able to understand the sentences and memorise the words</p>	<p>Skills: 1.understanding 2. application and orderliness of logical thinking</p>	Text book, computer and diagrams	<p>Using diagrams with missing letters ,students can identify the names of words related to computer</p>	Children will came to know how to identify the words related to computer

# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Computer Science

Class: 5

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS
April (20days)	Me and my computer	*Learn about computer parts - To recognize the uses of various computer parts. *Know the working and function of different a parts of computer.	*Children will become aware that the connectivity of the electronic devices should be done properly to work with them and devices should be handled with care.	Skills: understanding, application	Text book, computer and PPT	*Activity 1 :Children will draw the labeled diagram of CPU in their note book
June (25 days)	Computer peripherals(what is an internet)	The students will be able to – *Understand the concept of Network. *Understand uses of internet in different fields. *Understand advantages and disadvantages of internet.	*To make children aware how we can use internet in different parts of our life like business, ATM, banking, communication, entertainment, education, research etc. and how they can use internet for their use.	Skills Understanding , Application Values : Logical thinking , Awareness	Text book , computer with internet	*Working on internet and its related terms (web browsers, sign in/sign out, searching on the internet, sending/ receiving mails) will be explained through demonstration
July ( 25 days) August(21 days)	More about the keyboard	Students will be able to *Introduce keyboard as input device and role of keyboard in computer functioning. *Learn about the different types of keys (typing, numeric and arrow Keys)	Keyboard: pressing the keys of the keyboard gently.	SKILLS: 1.Understanding 2. Application Values: 1.Handling device with care	Computer , Text book , PPT and Keyboard	* Activity 1 :Children will be asked to fill different colours in different types of keys in practice sheets. * Activity 2 :Functioning of different keys will be demonstrated in Lab.
August(21 days)	Mouse and Windows	Students will be able to *Understand the different functions of a mouse (right click, left click, scroll) *Develop fine motor skills to better control the mouse *Understand the role of system software and OS *working with windows and its features. its functions . *To know the use of taskbar and start button navigation and some common tasks in Windows	Mouse : Don't pull the mouse and click it gently. *To make children aware to keep their files or folders in a systematic way and should be named & placed properly. *To make them aware not to use others files and folders without their permission.	SKILLS: 1.Understanding 2. Application Values: 1.Handling device with care Skills: understand ing, application Values : systematization, logical thinking, creative thinking	Computer , Text book , PPT and Mouse text book and computer	* Activity 1 :Using the mouse children practice how to click, double click, drag and scroll. * Activity 2 :Draw a picture of your choice in paint using mouse * Activity 3 :Label the parts of mouse given in worksheet. Children will create their own folder in D drive. Children will add gadgets of their choice to desktop.
September (25 days)	Paint	*Students will create a picture in Tux paint using their imagination. *Understand the term AI and know about real life example of AI *To	*Creating their own drawing *Students learn What is AI and Examples of AI *Students learn	Skills: Understanding, Application Values: Creative Thinking, Imagination	Computer , Text book and Tux paint Software	* Activity 1 :Draw a Scenery of your choice using Tux Paint tools. Activity 2 : "Save Environment/ Any Festival of

		make them aware of physical exercises while working on a computer	small exercises which are helpful to keep them fit.			their choice)" (ICT-EVS) *Tools of Tuxpaint Worksheet
October(19 days)	WordPad	Students will be able to *Start word *Understand the parts of MSWord *Create a document *Typing text in document *Save a document	*To make them how to type in and save their work. *Giving assignment and saving in the word	Skills: Application Values: Creative Thinking	Computer & Text book	* Activity 1:Learn about the different between delete keys and space keys. * Activity 2 :Learn how to types capital letters and the symbol placed on the upper part of keys. * Activity 3:Type a " Poem" by using font, font size and style of your choice (ICT -English)
October(19 days)	Internet	The students will be able to – • understand the basic concepts and terminology used in the internet (browser, chatting, email, homepage, search engines, URL, webpage, website) • Learn the use of internet services – search, email, chat. * Search information, images and videos on the internet through different search engines	To make them *Realize the power of technology on single click. •Aware of uses of internet in different places. • Aware of the importance of trees and how they can prevent deforestation by using electronic/internet medium instead of paper	Skills : Understanding, data handling, observation. Values : Logical thin king,	Text book, Computer and Internet connectivit y	Search for some information and the image of your role model on the internet and save information in any file on the computer.
November( 25 days)	LOGO	The students will be able to – *Understand the concept and purpose of programming. *Learn how to work in LOGO. *Understand the main concept, syntax and examples of some Logo commands likeFD, BK, RT,LT, PU, PD, HT, ST, CS, CT, HOME ,etc. *Learn how to draw different shapes (2D).	*To enhance their logical and analytical skills by making programs/ procedures. *They will learn the importance of step by step working.	Skills : Understanding, Application, Logical thinking	Text book , computer and software (LOGO)	Worksheet and practical test. ICT- Math *Children will come to know about working with computer languages. *Children will understand about the execution of commands
January (22 days)	Multimedia	Students will be able to understand how to input, edit, and output graphics ,sounds and videos	Students can be able to record their voice, play DVD, play CD, and making animation	Skills: 1.understanding 2. application and orderliness of logical thinking	Text book, computer and PPT CD, DVD, Pen drive	using the CD /DVD children will practice how to insert in to drive and listen audio and see video

# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Computer Science

Class: 6

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
April (20 days)	How Does A Computer works	Students will be able to *Understand the principle of working of computer (IPO cycle).	Children will become aware that the connectivity of electronic devices should be properly connected and should be handled with care.	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2. Logical Thinking	Computer , Text book and PPT	* Activity: Draw daily life example in the form of picture mentioning input, process and output.	*Children Know about IPO cycle. *Connecting real life situations to the system.
June (25 days)	Hardware and Software	The Students will be able to: Distinguish between computer hardware and software. Discuss the purpose of each hardware part. Identify different types of input and output devices and explain their function. Identify different types of storage devices and their specific uses Classify different types of Software. (System and Application)	To make the aware that it is unethical to use pirated CD's and DVDs. Respecting the privacy of others while using storage devices	SKILLS Understanding and Application VALUES Analytical thinking.	Computer, Textbook, Black Board and Storage devices	Activity 1: Introduction to the Topic: Discussion. Ask the students to identify different parts of computers and their functions and discuss about hardware and software. Activity 2: Software: Ask the students what O.S their computer is using and whether it is hardware and software and explain about application and system software. Activity 3: Windows Explorer Move, Copy, Delete, Save, Rename folders in the desktop.	The students will 1. Differentiate between hardware and software. 2. Identify and discuss the role of the essential hardware components of a computer system 3.Classify hardware components into Input and Output devices. 4. Work with different storage devices.
July (25 days)	Input devices	Students will be able to understand about the input devices like keyboard, mouse, touchpad, touch pad screen, microphone etc	Children will become aware that the connectivity of input devices should be properly connected and should be handled with care.	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2. Logical Thinking	Computer , Text book and PPT	Ask the students to enter data in to the computer by using keyboard and mouse and also give them clarity to insert CD/DVD Ask them to identify the input devices like scanner, webcam, Blue ray ,Pen drive etc	Children know about different input devices like keyboard, mouse, touch pad, webcam, hard disc pen drive
September (25 days)	Windows	Differentiate between hardware and software	To make them Aware about OS. Learn about	Skills : understanding , application Values :	Text book, and computer	Activity: common tasks of Windows (working with	The students will develop the ability

		<p>Understand the role of application &amp; system software Work with windows OS. Recognize the different components of desktop. Work with desktop/ taskbar/ start button/ application window. Work with files and folders.</p> <p>Arrange/sorting icons, select/ Deselect folders.</p>	<p>desktop taskbar/ start button/ application window. Understand that they cannot use others files/ folders without permission. Keep their files or folders in a systematic way and should be named &amp; placed properly.</p>	<p>systematization, logical thinking</p>		<p>desktop, customizing the windows setup, task bar, start button, application window, some common taskcreating/ opening/ deleting/ restoring and renaming a file/folder and using context menu, creating shortcuts) will be demonstrated. *Worksheet</p>	<p>to- Understand the role of OS. Recognize different versions of windows. Work with desktop/ taskbar/ start button/ application window. Work with files and folders. Arrange/sorting icons, select/deselect folders. Do file/folder operations (create/ deleting/ restoring/ renaming/opening and creating shortcut).</p>
<p><b>October (19 days)</b></p>	<p>Paint Advanced</p>	<p>*Students will create a picture in paint using their imagination.</p>	<p>*Students will be aware of tools used in paint and how to apply them. *Creating their own drawing</p>	<p>Skills: Understanding, Application Values: Creative Thinking, Imagination</p>	<p>Computer , Text book and paint Software</p>	<p>* Activity 1 :Draw a Scenery of your choice using Paint tools. Activity 2 : "Save Environment/ Any Festival of their choice)" (ICT-EVS) *Tools of paint Worksheet</p>	<p>*Students learn how to use tools in paint to create their own senary.</p>
<p><b>November (25 days)</b> <b>December (25 days)</b></p>	<p>MS Word</p>	<p>*To make children understand about MS office package and to introduce them with MS Word as a word processing software. *To make children aware about the working of various functions in MSWord (Selecting, Editing, Inserting,) *To make children aware about the use of various shortcut keys used in MS Word.(CTRL+C, CTRL+V, and CTRL+S) *Do formatting (bold/ italic/</p>	<p>*To make them aware how to present the work in a systematic manner. *To enhance the creativity of children by giving them the assignments of making cards, posters and banners.</p>	<p>Skills: understanding, Application Value: Creative Thinking</p>	<p>text book and computer</p>	<p>*Activity : Children will type Good Habits (10) using all the Font, Size, colour and alignments of their choice to show their skills. *Make Birthday cards for their friends. ICT-English *Worksheet Critical Thinking: While discussion, the teacher will ask the students to elaborate upon the usage of undo and redo. Undo and redo help the students to refine and reorganize their document</p>	<p>* Children will learn to work in MS word *Work with different tools of MS Word. * Children will become more familiar with MS word and its tools *Do formatting and editing the text *Do work in presentable manner.</p>



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<b>January (22 days)</b>	LOGO	The students will be able to – *Understand the concept and purpose of programming. *Learn how to work in LOGO. *Understand the main concept, syntax and examples of some Logo commands likeFD, BK, RT,LT, PU, PD, HT, ST, CS, CT, HOME, BYE, etc. *Learn how to draw different shapes (2D).	*To enhance their logical and analytical skills by making programs/ procedures. *They will learn the importance of step by step working.	Skills : Understanding, Application, Logical thinking	Text book , computer and software (LOGO)	Worksheet and practical test. ICT- Math *Children will come to know about working with computer languages. *Children will understand about the execution of commands	*Children will come to know about working with computer languages. *Children will understand about the execution of commands using turtle.
<b>January (22 days)</b>	Rising steps of computers	Students can be able to understand the history of calculation devices , Abacus, Pascaline , Napier bones ,analytical engine , punch card, mark-I, ENIAC, computer generations.	*To enhance their logical and analytical skills by doing calculations, knowing of first, second , third, fourth, and fifth generations of computers	Skills : Understanding, Application, Logical thinking	Text book , computer and software (LOGO)	Worksheet and practical test. ICT- Math *Children will come to know about history of calculations and generations of computers *Children will understand about the devices like abacus, Pascaline, Napier bones etc	Children will came to know the history of calculation devices , Abacus , punch card, Mark-I, ENIAC, analytical and differential engine
<b>February (23 days)</b>	Lab manners	Students will be able to understand how to behave in the lab respectfully by following some of the rules like no intake of food or drinks near the computer , how to enter the lab quietly and exit the lab ,how to surf safely, students will get understood about changing and setting desktop backgrounds, how to save all unfinished work.	Behavioural objective should be effective and SMART Specific Measurable Attainable Realistic Time bound	Skills : Understanding, Application, Following the rules	Computer ,and PPT	Students have to remember to log off the programs that they are using. They should know that they doesn't have permission to print any document. They should know to use the computer only in front of them	Children will be able to know the difference between the basic concepts between a computer hardware and software They came to know how to behave respectfully in the lab. They should came to know , how to surf safely.

# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Computer Science

Class: 7

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
<b>April(20 days)</b>	Computer coding and memory	Students will be able to understand data coding and functionality ,bits and bytes, computer logic, Morse code , memory, semiconductor memory SAM, RAM, DRAM, SARM, ROM, PROM,EPROM,EEPROM, Auxiliary storage memory, units of memory measurement	Children will became aware that usage of different semi conductor memory devices	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will be able to do data coding and know about its functions Children will be able to know about different types of memory devices	Children will come to know about how a computer works, Data coding, bits and bytes, morse code, semi conductor memory devices
<b>June (25 days)</b>	Programming and languages	Children will be able to understand about computer languages , binary codes, types of computer , machine languages , assembly language, high level language, BASIC, COBOL, Pascal, Fortran	Students will became aware about how a program made, computer languages	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , PPT	Children will be able to write a program, they will know about the usage of different types of computer languages	Children will come to know and understand the programming basics , binary number system, display output on the console
<b>July (25 days)</b>	Input and output devices	Children will be able to understand input and output devices like joystick, light pen, bar code reader, magnetic ink character reader(MICR), optical mark reader(OMR),full body scanner	Understand the need of input and output devices, suitable input and output devices for a wide range of computer controlled situations	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , PPT	Children will be able to identify input and output devices	Students will be able to identify several types of input and output devices and explain their functions
<b>August ( 21 days)</b>	Output devices	Children will be able to understand output devices like monitor , printer , plotter ,LCD, Projector , Speaker set, Television, Braille reader ,3D printer , Robot, ATM	Understand the need of input and output devices, suitable output devices for a wide range of computer controlled situations	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , PPT	Students will be able to identify different types of output devices	Students will be able to identify several types of output devices and explain their functions

<p><b>September ( 25 days)</b></p>	<p>Storage and communication devices</p>	<p>Children can be able to identify a list of different storage devices used with a computer system , can order typical storage media according to their typical size , can outline the reasons for making a backup</p>	<p>Describes how the CPU process data and instructions and controls the operation of all other devices ,identify the names distinguishing features of output devices</p>	<p><b>SKILLS:</b> 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking</p>	<p>Computer , Textbook , PPT</p>	<p>Students will be able to identify about different storage devices like hard disk , flash memory card, cloud storage, modem, wi-fi ,network interface card etc</p>	<p>Children can be able to identify different storage devices used with a computer system.</p>
<p><b>October(19 days)</b></p>	<p>Algorithm and flowchart</p>	<p>The Students will be able to: Define and Understand Algorithm Write a simple algorithm Define basic symbols of flowchart Identify how to apply flow chart symbols to an Algorithms.</p>	<p>To make them Develop Programming skills Use their programming abilities to build software for various applications.</p>	<p><b>SKILLS</b> Understanding, Application Logical <b>VALUES</b> Structured thinking and Reasoning abilities</p>	<p>Computer, Textbook, Black board and Libre office writer</p>	<p>Activity: Students will be asked to write an algorithm for any daily activity like Washing clothes, making tea, Baking a cake making a cereal, Brush your teeth etc. Activity: Students will be asked to write a flowchart for the algorithm they have chosen. Activity Assessment: Worksheet and Lab Activity Write an algorithm to find the average marks scored by a student in 3 subjects. State whether a student passes or fails. Also make a flowchart for the same.</p>	<p>The students will Write an Algorithm for solving a given problem. Translate algorithms to flowcharts</p>
<p><b>October(19 days)</b></p>	<p>Operating systems</p>	<p>*Understand the role of system software and OS *working with windows and its features. its functions . *To know the use of taskbar and start button navigation and some common tasks in Windows *Understand how to set screen saver/wall paper *Understand how to create new folder and delete it.</p>	<p>*To make children aware to keep their files or folders in a systematic way and should be named &amp; placed properly. *To make them aware not to use others files and folders without their permission.</p>	<p>Skills: understanding, application Values : systematization, logical thinking, creative thinking</p>	<p>text book and computer</p>	<p>Activity 1 :Children will create their own folder in D drive. Children will add gadgets of their choice to desktop. *Activity2 :Children will be asked to change the wallpaper of their desktop. *Worksheet</p>	<p>*Differentiate between hardware and software *Understand the role of OS. *Work with desktop/taskbar/ start button/ application window. * Children will be able to handle files, folders and applications</p>

<p><b>November (25 days)</b></p>	<p>MS Word</p>	<p>*To make children understand about MS office package and to introduce them with MS Word as a word processing software. *To make children aware about the working of various functions in MS Word (Selecting, Editing, Inserting,) *To make children aware about the use of various shortcut keys used in MS Word.(CTRL+C, CTRL+V, and CTRL+S) *Do formatting (bold/ italic/ underline/ font style/ font size/ font color) of text</p>	<p>*To make them aware how to present the work in a systematic manner. *To enhance the creativity of children by giving them the assignments of making cards, posters and banners.</p>	<p>Skills: understanding, Application Value: Creative Thinking</p>	<p>text book and computer</p>	<p>*Activity :Children will type Good Habits (10) using all the Font, Size, colour and alignments of their choice to show their skills. *Make Birthday cards for their friends. ICT-English *Worksheet Critical Thinking: While discussion, the teacher will ask the students to elaborate upon the usage of undo and redo. Undo and redo help the students to refine and reorganize their document.</p>	<p>* children will learn to work in MS word *Work with different tools of MS Word. * children will become more familiar with MS word and its tools *Do formatting and editing the text *Do work in presentable manner.</p>
<p><b>November (25 days)</b></p>	<p>MS Power point</p>	<p>The Students will be able to: 1.Create, Edit and Save Presentation. 2. Create and Manipulate presentation with views such as Notes, slide sorter, Normal etc) 3.Format presentation. ( Use design layouts and Templates) 4. Add Graphics to presentation. 5. Insert Textboxes in the presentation. 6. Apply slide transitions 7. Animate the slide content.</p>	<p>To make them Develop presentation skills Enhance presentations and make them visually appealing to the audience. Use the presentation to spread awareness of any social, environmental causes.</p>	<p>SKILLS Understanding and Application VALUES Creative thinking</p>	<p>Computer, Textbook and MS PowerPoint software.</p>	<p>Activity : Introduction: Demonstrate how to create and save a presentation. Activity: Working with the basic features Demonstrate how to insert, delete, edit text and images and view the ppt in different views and layouts. Activity: Animation and Transition Demonstrate applying slide transition and animation of objects. Activity : Assessment: Worksheet and Lab Activity Project : PPT on “ Importance of trees</p>	<p>The students will 1.Create a new presentation 2.Understand and change presentation views 3.Work with various slide layouts 4.Insert and Modify text 5.Insert and edit animations. 6.Apply transitions 7.Work with graphics 8.Deliver a presentation</p>
<p><b>December (25 days)</b></p>	<p>Multimedia</p>	<p>Students will be able to understand how to input, edit, and output graphics ,sounds and videos</p>	<p>Students can be able to record their voice, play DVD, play CD, and making animation</p>	<p>Skills: 1.understanding 2. application and orderliness of logical thinking</p>	<p>Text book, computer and PPT CD, DVD, Pen drive</p>	<p>using the CD /DVD children will practice how to insert in to drive and listen audio and see video</p>	<p>Students will develop multimedia skills understanding the principal players of individual players in multimedia terms in developing projects</p>

<p><b>January (22 days)</b></p>	<p><b>Internet</b></p>	<p>The students will be able to – *Understand the concept of Network. *Understand uses of internet in different fields. *Understand advantages and disadvantages of internet. *Understand basic terminologies such as web browser, web page, search engine, URL. *Understand the responsibilities of a good digital citizen.</p>	<p>*To make children aware how we can use internet in different parts of our life like business, ATM, banking, communication, entertainment, education, research etc. and how they can use internet for their use. *To sensitize them about the importance of trees and in place of using paper they can make their work easy by using internet *To make them aware about the ways to get connected with their friends and family.</p>	<p>Skills Understanding , Application Values : Logical thinking , Awareness</p>	<p>Text book , computer with internet</p>	<p>*Working on internet and its related terms (web browsers, sign in/sign out, searching on the internet, sending/ receiving mails) will be explained through demonstration *Activity - Children will be asked to check the school websites to know about the activities happening in school.</p>	<p>Children will be able to work on internet</p>
<p><b>January(22 days)</b></p>	<p>Windows 7</p>	<p>*Understand the role of system software and OS *working with windows and its features. its functions . *To know the use of taskbar and start button navigation and some common tasks in Windows *Understand how to set screen saver/wall paper.</p>	<p>*To make children aware to keep their files or folders in a systematic way and should be named &amp; placed properly. *To make them aware not to use others files and folders without their permission.</p>	<p>Skills: understanding, application Values : systematization, logical thinking, creative thinking</p>	<p>text book and computer</p>	<p>Activity 1 :Children will create their own folder in D drive. Children will add gadgets of their choice to desktop. *Activity2 :Children will be asked to change the wallpaper of their desktop</p>	<p>*Differentiate between hardware and software *Understand the role of OS. *Work with desktop/taskbar/ start button/application window.</p>
<p><b>February(23 days)</b></p>	<p>Cyber crime protection</p>	<p>Students will be able to discuss data and identify data sources ,can be able to understand digital evidence ,compare and evaluate the difference between digital evidence and traditional evidence</p>	<p>Can be able to know cyber threats like loss of confidentiality, loss of integrity, loss of availability, combined loss</p>	<p>Skills: understanding, application Values : systematization, logical thinking, creative thinking</p>	<p>text book and computer</p>	<p>Choose strong passwords and don't reuse them for multiple logins Install security software such as anti-virus and two factor authentication</p>	<p>Analyze and access the impact of cyber crime on government , business , individuals and society Evaluate the effectiveness of cyber laws</p>

# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Computer Science

Class: 8

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
April (20 days)	Communication tools	Children will be able to understand and apply communication theory. Critically think about communication processes and messages	Understand dynamics of the health issue Understand audience and other potential participants in the society	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will use different communication tools like Email, telephones ,landline phones, SMS/text messaging, cell and data plans ,video and web conferencing, social networking sites etc	Children will be able to identify different communication tools and selects the appropriate one for the intended
June (25 days)	MS Power point	The Students will be able to: 1.Create, Edit and Save Presentation. 2. Create and Manipulate presentation with views such as Notes, slide sorter, Normal etc) 3. Format presentation. ( Use design layouts and Templates) 4. Add Graphics to presentation. 5. Insert Textboxes in the presentation. 6. Apply slide transitions 7. Animate the slide content.	To make them Develop presentation skills Enhance presentations and make them visually appealing to the audience. Use the presentation to spread awareness of any social, environmental causes.	SKILLS Understanding and Application VALUES Creative thinking	Computer, Textbook and MS PowerPoint software.	Activity : Introduction: Demonstrate how to create and save a presentation. Activity: Working with the basic features Demonstrate how to insert, delete, edit text and images and view the ppt in different views and layouts. Activity: Animation and Transition Demonstrate applying slide transition and animation of objects. Activity : Assessment: Worksheet and Lab Activity Project : PPT on “ Importance of trees	The students will 1.Create a new presentation 2.Understand and change presentation views 3.Work with various slide layouts 4.Insert and Modify text 5.Insert and edit animations. 6.Apply transitions 7.Work with graphics 8.Deliver a presentation
July (25 days)	MS Word	*To make children understand about MS office package and to introduce them with MS Word as a word processing software. *To make children aware about the working of various functions in	*To make them aware how to present the work in a systematic manner. *To enhance the creativity of children by giving them the assignments of making cards, posters and banners.	Skills: understanding, Application Value: Creative Thinking	text book and computer	*Activity : Children will type Good Habits (10) using all the Font, Size, colour and alignments of their choice to show their skills. *Make Birthday cards for their friends. ICT-English *Worksheet Critical Thinking: While	* Children will learn to work in MS word *Work with different tools of MS Word. * Children will become more familiar with MS word and its tools *Do formatting and

		MSWord (Selecting, Editing, Inserting,) *To make children aware about the use of various shortcut keys used in MS Word.(CTRL+C, CTRL+V, and CTRL+S) *Do formatting (bold/ italic/ underline/ font style/ font size/ font color) of text				discussion, the teacher will ask the students to elaborate upon the usage of undo and redo. Undo and redo help the students to refine and reorganize their document.	editing the text *Do work in presentable manner.
<b>August(21 days)</b> <b>September (25 days)</b>	spreadsheet	The students will be able to 1. Learn the Features of Excel. 2. Learn about the different components of Worksheet. (Cell, Active Cell, Formula Bar etc) 3. Learn how to Create, Open, Save and Rename worksheets. 4. Learn about the different types of Data. 5. Enter Data 6. Edit and Manipulate Data.	To make the students: 1. Work Collaboratively with peers in groups. 2. Present their work in a systematic and professional manner.	<b>SKILLS:</b> Understanding, Analysing and Application. <b>VALUES:</b> Orderliness Data Management Skills.	Computer, Textbook, Microsoft Excel Software	Activity: Introduction of the topic: Demonstrating practically how to start the excel program and then doing an activity of entering data and editing the worksheet. Activity (Assessment) Worksheets and Lab Activity. Project: Inventory of Goods in a Shop.	The student will 1. Explain the features of Excel 2. Identify different components of Worksheet. 3. Differentiate between Workbook and Worksheet. 4. Enter and Edit (Move. Copy and Paste) Data. 5. Create a spreadsheet to tabulate and record data values.
<b>October(19 days)</b>	HTML	To learn the • concept of Web pages and Websites. To create a • Webpage using HTML coding language. HTML elements Html, Head, • Title, Body. To understand • tags, attributes and elements in HTML	To show creativity • By designing web pages. To understand • Design aspects of web pages. To know various • languages which are used to design web pages.	Skills Creative and designing skills Values Learn to design an attractive web page.	Green Board, Text Book, Computer, Projector, PPT, Videos.	Students • should have clear understanding of World Wide Web, Web Browser and basic terminology related to Internet. Typing the • HTML code in Notepad and debug the code	Student • will understand the concept of web pages and websites. Be able to • create a webpage using HTML coding language. Learn creating HTML document. Exhibit • creativity by designing web pages.

<p><b>November (25 days)</b></p>	<p>Q Basic</p>	<p>The students will be able to 1.Understand what is a PROGRAM? 2.Define the term QBASIC 3.Learn different elements of a Program(Constants , variables etc)</p>	<p>To make the students: 1.Become confident problem solvers. 2. Use programming abilities to write good programs and not to hack and exploit the weakness in the system.</p>	<p>SKILLS Understanding and Application VALUES: Structured thinking, Reasoning abilities and Problemsolving techniques</p>	<p>Computer, Textbook, Black board and QBasic Software</p>	<p>Activity : Warm Up Activity Discussion on how computer's work. What is Program, QBASIC etc Activity: Getting to Q basic: Showing students how to launch the QBASIC editor, OPEN, SAVE, CLOSE.</p>	<p>The students will 1. Gain an understanding of the basic underlying concepts of programming. 2.Able to clear screen</p>
<p><b>December (25 days)</b></p>	<p>Q basic advanced</p>	<p>Launch the QBASIC interface 1.Learn Simple QBasic Commands (CLS, PRINT,DRAW,LINE, CRCLE,PAINT,PRES ET,PSET) 2.Write Basic programs using QBasic Commands.</p>	<p>To make the students: 1.Become confident problem solvers. 2. Use programming abilities to write good programs and not to hack and exploit the weakness in the system.</p>	<p>SKILLS Understanding and Application VALUES: Structured thinking, Reasoning abilities and Problemsolving techniques</p>	<p>Comput er, Text book, Black board and QBasic Software</p>	<p>Activity: Getting to Q basic: Explain to students the elements of a programming language. Activity: QBASIC Commands: Teach Q basic Commands which will help them to write simple programs Activity (Assessment Worksheets and Lab Activity. Project: Draw a Circle of radius 45 and fill it with colour of your choice.</p>	<p>1. Execute Loops 2.Changecolours 3. Play Sounds.</p>
<p><b>January (22 days)</b></p>	<p>MS office</p>	<ul style="list-style-type: none"> <li>Indicate the names and functions of the Word interface components.</li> <li>Create, edit, save, and print documents to include documents with lists and tables.</li> <li>Format text and to use styles.</li> <li>Add a header and footer to a document.</li> <li>Add a footnote to a document.</li> </ul>	<ul style="list-style-type: none"> <li>Add a footnote to a document.</li> <li>Add a graphic to a document.</li> <li>Use the Spelling and Grammar Checker as well as Microsoft Help.</li> <li>Manipulate documents using functions such as find and replace; cut, copy, replace.</li> </ul>	<p>SKILLS Understanding and Application VALUES: Structured thinking, Reasoning abilities and ProblemSolving techniques</p>	<p>Computer, Text book, Black board and QBasic Software</p>	<p>Microsoft Office is a suite of applications designed to help with productivity and completing common tasks on a computer. You can create and edit documents containing text and images, work with data in spreadsheets and databases, and create presentations and posters.</p>	<p>Learners will be familiar with some advanced Office functions, including Mail Merge (Word) and formulas (Excel). Learners will understand how to use Word, Excel, and PowerPoint in a variety of professional, educational, and personal situations. Learners will be able to claim Office proficiency.</p>



<b>January (22 days)</b>	Movie maker	Students can be able to identify , how to input file, how to create transitions between clips, video effects , titles of credits	Can add input files ,can create transitions between clips, video effects	SKILLS Understanding and Application VALUES: Structured thinking, Reasoning abilities and ProblemSolving techniques	Computer, Text book, Black board and QBasic Software	Can understand the concepts of planning ,filming, editing and sharing	Students will understand the critical study of cinema Students can understand about pre production, production and film making process
<b>February(23 days)</b>	Scanner and printer	Children can be able to understand how to connect a scanner to the computer , knows about small computer system interface ,universal serial bus ,how to print a document	To make the students work collaboratively with scanner and printers. Like connecting to scanner and printer ,editing projects, Importing digital media files	SKILLS Understanding and Application VALUES: Structured thinking, Reasoning abilities and ProblemSolving techniques	Computer, Text book, Black board and QBasic Software	Explain the students about the usage of scanners and printers while connecting to computers	Children will come to know about connecting scanner and printer to computers , can be able to know small computer system interface ,knows about serial bus

# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Information Technology

Class: 9

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
April (20)	Communication skills	Students can be able to understand meaning of communication , verbal and non verbal communication, writing skills, greetings and introduction, talking about self	Understand dynamics of the health issue Understand audience and other potential participants in the society	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will use different communication tools like card pieces , listen and draw, guess the emotion, the guessing game etc	Students should be able to identify common errors and rectify them, Develop and expand writing skills through controlled and guided activities, To develop coherence ,cohesion and competence in oral discourse through intelligible pronunciation
June (25)	Self Management skills	Demonstrates the skills to manage and express their emotions , thoughts and impulses and stress in effective ways Demonstrates the skills to set , monitor , adapt, achieve and evaluate goals	Understanding dynamicsof the situational cues, cognitive supports, behavioral dilemmas , self reinforcement etc	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will use different self management skills like mindfulness meditation for self awareness, student council for responsible decision making, listening circles for social awareness, make new friends from relationship skills	Children should came to know about introduction of Self management , Self awareness , Self control , Self Confidence, goal setting , Positive thinking, Personal hygiene, Grooming and its Importance
July (25)	Information and communication technology skills	Children can be able to understand ICT tools like smart phones and tablets , parts of a computer and peripheral , basic computer operations , basics of internet, internet browsing , e mail	Behavioral objective in the class room can also used to report on students disciplinary issues such as tardiness and negative behavior .	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Word processing, presentation and desktop publishing software , tablets and interactive whiteboards , internet , recording technology audio and video	Searching information on the internet , drafting and editing multimedia presentations, network communication and collaboration, exploring computer environments

						Communication: email , video conferencing and social media , Immersive games , translation software	
<b>August (21)</b>	<b>Entrepreneurship skills</b>	Students will be able to understand the role, qualities , characteristics, types product , service and hybrid business, development process of entrepreneurship	Understanding about drive and energy , self confidence, high initiative and personal responsibility, internal locus of control, tolerance of ambiguity	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will exercise different entrepreneur skills like flipped classroom exercise , business thesis exercise , soft skills exercise, blindfold exercise , two minute pitch exercise etc..	Students will be able to sell themselves and their ideas , find problem worth solving , mobilize people and resources , create value , develop and cultivate endurance
<b>September (25)</b>	<b>Green skills</b>	Students can be able to understand about society and environment, conserving and development and green economy	Aims at reducing environmental risks and ecological scarcities and that aims for sustainable development without degrading the environment	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Renewable or not , reduce, reuse , recycle , A peek at packaging , our changing world , A look at lifestyles , viewpoints on the line	Demonstrates and understanding of the interaction between distinct sharing , identify how globalized process impact socio ecological systems
<b>October (19)</b>	<b>Introduction to IT and ITe's Industry</b>	Students will understand about the uses of IT , business process management , and IT applications	Behavioral objective in the class room can also used to report on students disciplinary issues such as tardiness and negative behavior .	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Word processing, presentation and desktop publishing software , tablets and interactive whiteboards , internet , recording technology audio and video Communication: email , video conferencing and social media , Immersive games , translation software	Searching information on the internet , drafting and editing multimedia presentations, network communication and collaboration, exploring computer environments
<b>November ( 25)</b>	<b>Data entry and keyboarding skills</b>	Students will be able to *Introduce keyboard as input device and role of keyboard in computer functioning. *Learn about the different types of keys	To make them aware how to use electronic devices safely. Keyboard: pressing the keys of the keyboard gently.	SKILLS: 1.Understanding 2. Application Values: 1.Handling device with care	Computer , Text book , PPT and Keyboard	* Activity 1 :Children will be asked to fill different colours in different types of keys in practice sheets. * Activity 2 :Functioning	*Children will become familiar with functioning of different keys. *Children will learn how to use numeric keys and arrow keys.

						of different keys will be demonstrated in Lab. * Activity 3 :Use Calculator app and complete the given worksheet. (ICTMath)	
<b>December (25)</b>	<b>Digital documentation</b>	*To make children understand about MS office package and to introduce them with MS Word as a word processing software. *To make children aware about the working of various functions in MSWord (Selecting, Editing, Inserting,) *To make children aware about the use of various shortcut keys used in MS Word.(CTRL+C, CTRL+V, and CTRL+S) *Do formatting (bold/ italic/ underline/ font style/ font size/ font color) of text	*To make them aware how to present the work in a systematic manner. *To enhance the creativity of children by giving them the assignments of making cards, posters and banners.	Skills: understanding, Application Value: Creative Thinking	text book and computer	*Activity : Children will type Good Habits (10) using all the Font, Size, colour and alignments of their choice to show their skills. *Make Birthday cards for their friends. ICT-English *Worksheet Critical Thinking: While discussion, the teacher will ask the students to elaborate upon the usage of undo and redo. Undo and redo help the students to refine and reorganize their document.	* Children will learn to work in MS word *Work with different tools of MS Word. * Children will become more familiar with MS word and its tools *Do formatting and editing the text *Do work in presentable manner.
<b>January (22)</b>	<b>Electronic spreadsheet</b>	The students will be able to 1. Learn the Features of Excel. 2. Learn about the different components of Worksheet. (Cell, Active Cell, Formula Bar etc) 3. Learn how to Create, Open, Save and Rename worksheets4. Learn about the different types of Data. 5. Enter Data 6. Edit and Manipulate Data.	To make the students: 1. Work Collaboratively with peers in groups. 2. Present their work in a systematic and professional manner.	SKILLS: Understanding, Analysing and Application. VALUES: Orderliness Data Management Skills.	Computer, Textbook, Microsoft Excel Software	Activity: Introduction of the topic: Demonstrating practically how to start the excel program and then doing an activity of entering data and editing the worksheet. Activity (Assessment) Worksheets and Lab Activity. Project: Inventory of Goods in a Shop.	The student will 1. Explain the features of Excel 2. Identify different components of Worksheet. 3. Differentiate between Workbook and Worksheet. 4 .Enter and Edit (Move. Copy and Paste) Data. 5. Create a spreadsheet to tabulate and record data values.

<p><b>February (23)</b></p>	<p><b>Digital presentation</b></p>	<p>The Students will be able to: 1.Create, Edit and Save Presentation. 2. Create and Manipulate presentation with views such as Notes, slide sorter, Normal etc) 3. Format presentation. ( Use design layouts and Templates) 4. Add Graphics to presentation. 5. Insert Textboxes in the presentation. 6. Apply slide transitions 7. Animate the slide content.</p>	<p>To make them Develop presentation skills Enhance presentations and make them visually appealing to the audience. Use the presentation to spread awareness of any social, environmental causes.</p>	<p><b>SKILLS</b> Understanding and Application <b>VALUES</b> Creative thinking</p>	<p>Computer, Textbook and MS PowerPoint software.</p>	<p>Activity : Introduction: Demonstrate how to create and save a presentation. Activity: Working with the basic features Demonstrate how to insert, delete, edit text and images and view the ppt in different views and layouts. Activity: Animation and Transition Demonstrate applying slide transition and animation of objects. Activity : Assessment: Worksheet and Lab Activity Project : PPT on “ Importance of trees</p>	<p>The students will 1.Create a new presentation 2.Understand and change presentation views 3.Work with various slide layouts 4.Insert and Modify text 5.Insert and edit animations. 6.Apply transitions 7.Work with graphics 8.Deliver a presentation</p>
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# St. RITA HIGH SCHOOL

## ANNUAL CURRICULUM 2022-2023

Subject: Information Technology

Class: 10

MONTH	TOPIC	CONCEPT BASED LEARNING	APPLICATION BASED LEARNING	SKILLS AND VALUES	RESOURCES AND TEACHING AIDS	ACTIVITIES/ ASSESSMENTS	LEARNING OUTCOMES
April(20)	Communication skills	Students can be able to understand meaning of communication , verbal and non verbal communication, communication cycle and feedback , barriers and principles of effective communication, writing skills	Understand dynamics of the health issue Understand audience and other potential participants in the society	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will use different communication tools like card pieces , listen and draw, guess the emotion, the guessing game etc	Students should be able to identify common errors and rectify them, Develop and expand writing skills through controlled and guided activities, To develop coherence ,cohesion and competence in oral discourse through intelligible pronunciation
June (25)	Self management skills	Demonstrates about the stress and stress management , importance of the ability to work independently	Understanding dynamics of the situational cues, cognitive supports, behavioral dilemmas , self reinforcement etc	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will use different self management skills like mindfulness meditation for self awareness, student council for responsible decision making, listening circles for social awareness, make new friends from relationship skills	Children should come to know about introduction of Self management , Self awareness , Self control , Self Confidence, goal setting , Positive thinking, Personal hygiene, Grooming and its Importance
July (25)	Information and communication technology skills	Children can be able to understand basic computer operations, operating system, windows 10 operating	Bahavioral objective in the class room can also used to report on students disciplinary issues such as	SKILLS: 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Word processing, presentation and desktop publishing software , tablets and interactive	Searching information on the internet , drafting and editing multimedia presentations,

		system, file system, basic skills for care and maintenance of computer	tardiness and negative behavior .			whiteboards , internet , recording technology audio and video Communication: email , video conferencing and social media , Immersive games , translation software	network communication and collaboration, exploring computer environments
<b>August (21)</b>	<b>Entrepreneurship skills</b>	Students will be able to understand the role, qualities , characteristics, types product , service and hybrid business, development process of entrepreneur ship	Understanding about drive and energy , self confidence, high initiative and personal responsibility, internal locus of control, tolerance of ambiguity	<b>SKILLS:</b> 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Children will exercise different entrepreneur skills like flipped classroom exercise , business thesis exercise , soft skills exercise, blindfold exercise , two minute pitch exercise etc..	Students will be able to sell themselves and their ideas , find problem worth solving , mobilize people and resources , create value , develop and cultivate endurance
<b>September (25)</b>	<b>Green skills</b>	Students can be able to understand about society and environment, conserving and development and green economy	Aims at reducing environmental risks and ecological scarcities and that aims for sustainable development without degrading the environment	<b>SKILLS:</b> 1.Understanding 2. Application Values: 1.Orderliness 2.Logical Thinking	Computer , Textbook , Placards and PPT	Renewable or not , reduce, reuse , recycle , A peek at packaging , our changing world , A look at lifestyles , viewpoints on the line	Demonstrates and understanding of the interaction between distinct sharing , identify how globalized process impact socio ecological systems
<b>October (19)</b>	<b>Digital documentation advanced</b>	The students will be able to: •Understand the editing in MS- Word and the use of undo, redo, checking spelling, grammar and thesaurus tool. Search and replace. •Insert bullets and numbering. •Insert word art/ clip art /pictures from	To make them Aware how to• present the work in a systematic manner. Enhance the• creativity of children by giving them the assignments of making cards, posters and banners.	Skills : understanding , application Values : systematization, Creative thinking	Text book, and computer	Activity 1: Children will design a greeting card in MS- Word, they will take the print out of it and submit it to the teacher Activity 2: Children will be asked to make their class time table in MSword (using table)	Children will be• able to work with different tools of MS Word. They will learn• about tables and its properties and will develop the ability to work with partner, discuss and use creative ideas for

		<p>file gallery and working with drawings tools.</p> <ul style="list-style-type: none"> <li>•Resize and crop image.</li> <li>•Insert &amp; drawings tables and working with tables.</li> </ul>					<p>making tables.</p> <p>Children will be able to do work in presentable manner</p>
<p><b>November (25)</b></p>	<p><b>Electronic spreadsheet advanced</b></p>	<p>The students will be able to</p> <ol style="list-style-type: none"> <li>1. Differentiate between formulas and functions.</li> <li>2. Learn inbuilt DATE AND STRING functions.</li> <li>3. Create Charts to represent data pictorially.</li> </ol>	<p>To make the students:</p> <ol style="list-style-type: none"> <li>1. Represent the Data in the spread sheet along with the charts to create awareness about environmental issues such water conservation</li> </ol>	<p>To make the students:</p> <ol style="list-style-type: none"> <li>1. Represent the Data in the spread sheet along with the charts to create awareness about environmental issues such water conservation</li> </ol>	<p>Computer, Textbook Microsoft Excel Software.</p>	<p>Activity: Introduction of Functions: Demonstrating practically how to use DATE and STRING FUNCTIONS using the computer and excel software.</p> <p>Activity: Creating Charts Create a worksheet with data with headings Subjects and Marks and use this data to create Bar and Pie charts.</p> <p>Activity(Assessment Worksheets and Lab Activity. Project: Pie Chart for Water Usage.</p>	<p>The student will</p> <ol style="list-style-type: none"> <li>1. Perform basic Date and String functions</li> <li>2. Visualize data by creating Charts.</li> </ol>
<p><b>December (25)</b></p>	<p><b>Database management system</b></p>	<p>To enable students to use different data types to store different kinds of data in the database. To make students able to create a table in design view and to maintain data entries in datasheet view.</p>	<p>To make students able to prevent duplication of data. To enable students to arrange data in ascending or descending order.</p>	<p>Skills Managing Data Skill Values Data Management</p>	<p>Green Board, Text Book, Computer, Projector, PPT, Videos.</p>	<p>Creating database named "Employee list" Employee Database for an organization ( Employee ID, Name, Address, Salary, Mobile Number etc.)</p>	<p>Students</p> <ul style="list-style-type: none"> <li>• will learn to arrange data in ascending or descending order To prevent application of data. Student will be able to create a table in design view and to maintain data entries in datasheet view. Student will use different kinds of data in the</li> </ul>



<p><b>January (22)</b></p>	<p><b>Web application and security</b></p>	<p>Students can be able to recognize common web application security Can recognize web applications design assumptions and how to exploit them Be prepared to test web application security Chatting with a contact</p>	<p>To make students application and server configuration , input validation and error handling , authentication and session management , authorization , business logic, client side logic</p>	<p>Skills Managing Data Skill Values Data Management</p>	<p>Green Board, Text Book, Computer, Projector, PPT, Videos.</p>	<p>Introduction of different types of application security features include authentication, authorization, encryption, logging and application security testing</p>	<p>Students will come to know about web security principles , attacks and counter measures, web application vulnerabilities, Browse security model , finger printing, privacy, same origin policy ,cross site scripting , java script security , emerging threats</p>
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