YEAR PLAN 2018 – 2019
GRADE: VII COMPUTER APPLICATIONS

The academic year is divided into two sessions
Session One: June 2018 to October 2018
Session Two: November 2018 to March 2019
Continuous assessments: July, August, December, January, February
Summative Assessment I: October 2018
Summative Assessment II: March 2019
Please check the **index** page in the notebooks for Continuous Assessment marks**.**

AIM:

- To become competent, confident, responsible and critical user of technology.
- To develop the appropriate social skills that are essential for co-operative and collaborative learning.
- To take ownership of their own learning.
- To acquire knowledge and skills in using Information and Communications Technology (ICT) to accomplish tasks, communicate, and facilitate activities.
- To develop awareness in regard to the developments and emerging issues concerning computing and society;
- To develop critical and analytical thinking skills for practical solutions.
- To develop creative skills for problem solving.

Enduring Understanding:
Technology must be effectively used to simplify day to day processes, yet we must be aware that computers are not indispensable.

Objectives:

- Understand the fundamental operations of a computer and the basic computer software.
- To learn the Internet services
- Use HTML to design attractive web pages.
- Make presentations with text, pictures, animations, sound and other special effects.
- Organize data using MS Excel
- Program with QBASIC
- Understand how to manage files of different formats.

Project: Design a website on the theme

Session One: June – October 2018

Duration	Topics	Specific Learning Objectives	Activities	Life Skills
June	1.Computer – Hardware Components	• recognize different components of a computer like SMPS, ports, MODEM and disc drives. • explain the usage of different components. • differentiate between external and internal hardware	• Differentiating through demonstrations to children between internal and external hardware. • Explaining different components like Power supply(SMPS), Motherboard, Ports • Refer websites:	Awareness and Management skills Online: • www.code.org • https://www.lifewire.com
June/ July	7: HTML	• Lists • Tables • Images • Hyperlinks	• Explaining and discussing with children HTML, as a web designing tool, and its features. • Providing opportunities to each child to participate in project work to create webpage/website.	Developing skills of observation, problem solving, imagination and critical thinking
August	4: Ethics and Safety Measures in Computing	• follow ethics in computing • identify online threats • identify positive and negative uses of social media • show responsible behaviour when using computer and internet • become responsible digital citizens • take care about the digital footprint being created by their online behaviour	• Discussing with children various topics related to ethical and non-ethical issues and practices on the Internet while working on the computers. • Inculcating, among the children, the habit of ethical online conduct and responsible behavior while using information and technology. • Encouraging children to follow safety measures while using the computer and internet. • Refer websites:	Net Safety, Social intelligence, work ethics and interpersonal skills. • *https://prezi.com/tlwbhisu0gey/computer-ethics-and-safety-measures/*

August/ September	5: Spreadsheets - An Introduction	• define a spreadsheet • list the features and components of a spreadsheet • create a worksheet • identify the components of spreadsheet window • differentiate between a workbook and a worksheet • edit/format a worksheet.	• Demonstrating to children the different components of a spread sheet along with discussion. • Using formatting features by children created on the spread sheets. • Discussion on advantages of spreadsheet and workbook.	creative thinking, analytical and deductive skills **Integration**: Mathematics
October	Revision	• To Revise for SA1	• Written test • Lab test • Oral test • Open Book test	
November-March 2019				
Duration	**Topics**	**Specific Learning Objectives**	**Activities**	**Life Skills**
November	8. Looping statements in QBASIC	• Introduction to QBASIC • Parts of a loop • Types of loops • Exiting loops	• Learn and practice few QBasic programs like while, for next, do loop.	Developing logical and problem solving skills.
November	9. Programming in QBASIC Graphics & Sound	• Various commands to draw shapes using QBASIC	• Learn to draw shapes.	Developing logical & problem solving skills.
December	3. Computer Virus	• define a virus. • list different types of viruses. • follow standard measures to prevent virus attack. • identify symptoms of virus attack on a computer. • use a suitable antivirus software.	• Illustrating different types of viruses (boot sector and program file virus with examples). • Discussing the different forms/types of viruses. • Demonstrating different ways to prevent virus attacks and asking children to replicate the same	Awareness and Management skills
January	2. Number System	• Introduction to Number system • Digits and bases of different number systems. • Conversions from decimal to binary and vice versa.	• Illustrating to children the various number systems (Decimal, binary, octal and hexadecimal)	Logical Thinking
January / February	6: Database and DBMS – An Introduction	• define database and DBMS • list real life examples of databases. • Characteristics of database approach • Uses of database	• Provide opportunities for hands on experience to prepare a database through some examples and generating queries on the data.	Awareness on Organizing and Managing Data
February/ March	Revision	Revising for SA2	• Written test • Lab test • Oral test • Open Book test	

Introducing the students to the Latest IT Trends will be an ongoing endeavor throughout the year.
Facilitators' names: Mrs. Manju Gopalakrishnan, Mrs Rosmary, Ms. Kavitha, Mr John K
Textbook: *e-world – Computers: Basics and Applications by Anitha Goel and Sanchayan K. Ray. Published by Longman, Pearson Education*
Website: *computerapplications976.wordpress.com*