



PUTTING THE FUN BACK  
INTO LEARNING!

Dear Parents and Guardians,

KS4 –

All Grade 9 students will be doing practical work in class along with revising theory topics as a home work. Student who have selected Computing as an optional subject will be extending their knowledge for building logic to solve different problems.

KS3 –

Grade 8 will start working on Data Analysis using Spreadsheets after completing some more topics on Document Production. Grade 7 will be enhancing their skill of logic building and programming and will start using Variables this term.

## **The Core Topics:**

This term

Grade 6

Students will learn about writing stepwise instruction to solve daily life problems in form of algorithm. They will also learn to represent algorithm in form of flowchart.

Grade 7

Students will stretch their problem solving skills by planning and programming different Mathematical problems, using variables.

Grade 8

Students will focus on Data Analysis and will use spreadsheet to learn different analysis tools and techniques.

Grade 9

In ICT lessons Grade 9 students will start Web Authoring as it is an important topic of IGCSE.

In Computing lessons Grade 9 students will learn and apply selection statement and different types of loops to solve different problems.

**How Can You Help?** Encourage your child to enjoy working on their Scratch accounts to build their logic skills and their skill in programming.

**Homework:** All assigned homework will be available on the BRIC system as well as being explained to students in class.

**Useful Website:**

Grade 6: <https://codecombat.com/>

Grade 7: <https://scratch.mit.edu/>

[www.bbc.co.uk/education/subjects/zvc9q6f](http://www.bbc.co.uk/education/subjects/zvc9q6f)

Grade 8: [www.bbc.co.uk/education/subjects/z8mtsbk](http://www.bbc.co.uk/education/subjects/z8mtsbk)

[www.ictlounge.com](http://www.ictlounge.com)

Grade 9 (ICT): <http://www.bbc.co.uk/education/subjects/zqmtsbk>

[www.ictlounge.com](http://www.ictlounge.com)

Grade 9 (Computing): <http://www.bbc.co.uk/education/subjects/z34k7ty>

**Curriculum Content for December 2016:**

**Grade 6:**

Session Name	Description	Learning Intention
Building logic	Students will learn to make Algorithm to reach a specific target.	<ul style="list-style-type: none"> <li>Algorithm for daily life problems</li> <li>Algorithm for Solving games</li> <li>Algorithm to reach a specific target.</li> </ul>
Flow Charts	Students will learn to diagrammatically present algorithm using flow charts.	<ul style="list-style-type: none"> <li>Basic rules, symbols to draw a flow chart.</li> <li>Drawing flowchart for different problems assigned</li> </ul>

**Grade 7:**

Session Name	Description	Learning Intention
<b>Safer Internet Day</b>	Cyber Bullying	<ul style="list-style-type: none"> <li>Students will discuss Cyber Bullying, consequences, and safety measure to avoid being bullied.</li> </ul>
	Cyber Threats	<ul style="list-style-type: none"> <li>Students will be explained different threats of going to inappropriate</li> </ul>

		website, downloading pirated material etc and safety measures against these.
<b>Using Variable</b>	Planning	<ul style="list-style-type: none"> <li>• Students will plan, work and submit mathematical problems assigned, progressing towards making a calculator. (algorithm, flowcharts)</li> <li>• Students will program for mathematical problems using variables.</li> </ul>
	Programming	

### Grade 8: Data Analysis

Session Name	Description	Learning Intention
<b>Styles</b>	Corporate House Styles	<ul style="list-style-type: none"> <li>• To learn and understand Corporate house styles</li> <li>• To understand the benefits of making and using house styles.</li> <li>• To create House style for Presentations</li> <li>• To create house style for Documents.</li> </ul>
	House Style for Presentations	
	House Style for Documents	
<b>Data Analysis</b>	Data Analysis using Spread sheets:	<ul style="list-style-type: none"> <li>• Basic Terminologies; using formulas</li> <li>• Applying formulas and functions</li> <li>• Functions, sum, average, int, round, count, max, min, count a, count if, &amp; if.</li> <li>• Using different spreadsheet tools effectively.</li> </ul>
	Using formulas and functions Initiative,	

### Grade 9 ICT: Web Authoring

Session Name	Description	Learning Intention
<b>Introducing Web Authoring</b>	Understanding layer structure of web pages	<ul style="list-style-type: none"> <li>• To identify and describe the three web development layers</li> <li>• To understand the function of: content layer, presentation layer, behavior.</li> <li>• To create the content layer of a web page to meet the needs of the audience.</li> <li>• Developing first web page.</li> <li>• Understanding the difference between different software tools to</li> </ul>
	Working on Content Layer	
	Understanding syntax	
	File extension for web pages.	

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develop a web page and comparing them.

**Grade 9 Computer Science:**

Session Name	Description	Learning Intention
Safety and Security	Cyber Threats	<ul style="list-style-type: none"> <li>• Students will submit project on Cyber threats.</li> <li>• Students will submit project on Safety measures.</li> <li>• Will be discussed and explained in class.</li> </ul>
	Security Measures	
Problem Solving	Algorithm	<ul style="list-style-type: none"> <li>• To create Pseudocode to solve problems that you have analysed.</li> <li>• To use Selection statement to solve a problem: If else Statement, Case Statement.</li> <li>• To understand iteration and looping: For Loop Statement, While Loop, Repeat Until</li> <li>• To draw flowcharts to solve problems that you have analysed.</li> </ul>
	Flowchart	
	Pseudocode	

## Grade 9 Computer Science:

Session Name	Description	Learning Intention
<b>Storage Devices</b>	Types of Storage Devices	<ul style="list-style-type: none"><li>• To understand different types of storage devices and comparison between them.</li><li>• To describe examples of secondary storage media.</li><li>• Practicing Exam Style Questions</li></ul>
	Need for secondary storage & common types	
<b>Problem Solving</b>	Logic Building	<ul style="list-style-type: none"><li>• To understand and apply computational thinking methods including abstraction, decomposition and algorithmic thinking</li><li>• To explain what an algorithm is</li><li>• To produce algorithms using flow diagrams</li><li>• To create algorithms to solve problems that you have analysed.</li><li>• To produce algorithms using flow diagrams</li><li>• To create algorithms to solve problems that you have analysed.</li><li>• To understand what Pseudocode is and produce algorithms using Pseudocode.</li><li>• To create algorithms to solve problems that you have analysed.</li></ul>
	Algorithm	
	Flowchart	
	Pseudocode	

Best Regards,

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Grade 7, 8 and 9

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Grade 6

ICT & Computing Specialist Teachers