

# **Christ's College Guildford**

Principal: Sarah Hatch. BA (Hons), QTS, PGC, NPQH www.christscollege.surrey.sch.uk



Subject: OCR Cambridge Nationals Information Technologies Level 1/2 Certificate

Year Group: KS4 - Year 10 & 11

#### **Curriculum Intent:**

Develop learner's knowledge, skills and understanding through key computational concepts and experience. To ensure that all learners have sufficient knowledge to stay safe online and use computers safely in their lives. Develop resilient learners who are able to recover from mistakes and effectively solve problems. To give learners the opportunity to develop their capability, creativity and knowledge in computing and information technology.

#### **College Values:**

Within Computing we have high expectations that students display stewardship towards all resources provided. We develop students skills and capability to work collaboratively and show love and respect for one another.

### **Knowledge and Skills:**

Throughout the course students need to develop knowledge and understanding about the project life cycle and how to use Microsoft Office applications.

The Knowledge students need to demonstrate to the exam board are:

LO1 (R012) Understand the tools and techniques that can be used to initiate and plan solutions

LO2 (R013) To be able to initiate and plan a solution to meet an identified need

LO3 (R012) Understand how data and information can be collected, stored and used

LO4 (R012) Understand the factors to be considered when collecting, processing and storing data and information

LO5 (R013) To be able to import and manipulate data to develop a solution to meet an identified need

LO6 (R012) Understand the different methods of processing data and presenting information

LO7 (R013) To be able to select and present information in the development of the solution to meet an identified need

LO8 (R103) To be able to iteratively review the development of the solution





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The skills students will develop through this course can be seen below in the grid format:

LEVEL 1			LEVEL 2		
Basic Formula (+,-/,*) and Relative cell references, BODMAS (KS3)		Built in functions (KS3) i.e. SUM, AVERAGE, MIN, MAX	Absolute cell references	Advanced functions i.e. SUMIF, VLOOKUP, INDEX, MATCH	Cross spreadsheet referencin What IF modelling, macros
Basic formatting and set up of spreadsheet/database (KS3)		Setting basic data types (KS3)		Conditional formatting	
	Appropriate nan	ning conventions			
		Data vali	dation (range and complexity in	creasing)	Input masks
Sorting on on		e piece of data Sorting across num		ber of pieces of data	
Boolean op		erators (KS3)	Relative operators		
Single table database (KS3)		Multiple table database			
Primary key setting (auto gen) (KS3)		Primary Key USER set but ma	ay not be wholly appropriate Primary key USER set and will be wholly a		d will be wholly appropriate
		Single criteria query (KS3)	Multiple criteria query	Multiple criteria ACROSS tables	Paramater query
Simple charts (KS3) (bar chart, pie chart)		Complex charts (relevant label	ling, formats, live data updates)	Combination charts	Pivot table
Simple forms (KS3)		Across table forms		Across table forms with n	nultiple data entry methods
Simple reports (KS3)		Customised reports		House styled and customised reports	
		Access Le	evels: password access, read only,	, read and write, shared, locked	cells/areas
Input messages and error messages used/e		edited (KS3)	Menus and labels	Switchboards created and formatted	
Basic testing (data entered) (KS3)		Test plans - Expected results/actual results  Using range of test data (normal, extr			
Basic use of software for task (KS3)		Appropriate selection of software for task		Totally appropriate choice of software AND features for tas	
Structure and use of HTML (KS3)		Hyperlinks, hotspots, buttons, images, sound, video		Structure and use of CSS for formatting and layout	
Appropriate use of basic formatting skills: colour, borders, fo alignment, positioning, bullets, fills, shadows, tex			Advanced formatting: heading styles, auto applied fields, layers, rotation, tables, page bre paragraphs, header/footer, watermarks, footnotes, captions		
Set up: margins, orientation, page numb		ers (KS3)		Appropriate house style	
Spell check, proof read (KS3)		Gramm	ar check Readability check		ility check
Basic use of email: send, reply, forward, subject, correctly written (KS3)		Use of email: CC, BCC, attachments	Auto respons	e, signatures Rules	
			Mail merge	Multiple documen	t linkage/integration
Use of software generated templates (KS3)		Master pages / slides CREATED but not necessarily appropriate (KS3)	Master pages/slides CREATED that are appropriate to context	Master pages/slides CREATED and consistantly applied to product	
Slide transition and animation effects			Appropriate and	propriate and consistent use of transition and animation effects	
Media contains issues (pixelated, missing aspects)		Appropriate use of different media: insert, edit placement		High quality media use	
			Embedded media		
	Access		evels: password access, read only, read and write, shared, locked aspects		aspects
Linear presentation		Appropriate non linear presentation		on	Branching presentations
		Speakers notes			
Basic use of software for task to communicate information  Appropriate selection of software information					

These skills will be assessed throughout the course.

#### Assessment:

Students will be assessed during lessons both verbally and with the work they complete. More formal assessments will take place in the form of and end of topic and term assessments.

The formal assessments will take place during year 11:

R012 - External Exam worth 50% of the overall grade.

R013 - Internal Assessment worth 50% of the overall grade.

## Homework:

All Homework will be set via Google Classroom and Show My Homework.





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## **Cultural Capital:**

From the beginning we focus on ensuring our students are aware of the ethical, moral and legal issues relating to computer systems, business and digital design. As well as being regularly reminded of the personal safety issues whilst using the internet and all types of technology.

A solid understanding of how technology affects the real world is vital for students to be able to succeed once they leave us.

