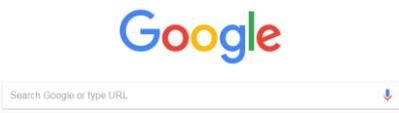
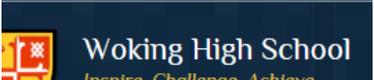


Computing - Heroes of Computing

Year 7 Autumn Term 2.1



Vocabulary		
Word	Definition	Example
Internet	The computers throughout the world that are connected and are able to share information and data	A chrome browser and Internet Explorer browser  
Appropriate	Something that is suitable and proper	It is not appropriate to share personal details on the internet as this can lead to hackers knowing too many things about us
Download (a file, page, song, etc) from the Internet	When a computer connects to a Server on the internet, information is brought from the server to the computer. This is called downloading information	Certain data can be downloaded and saved 
Upload (a file, page, picture etc) to the internet	When a computer connects to a Server on the internet, it can send information or files to the server. This is called uploading	When we connect to a social media website, we can send our picture to the website and this is called uploading
Websites	A set of web pages that are connected by a common theme or topic	 Woking High has a public website that has many pages about the school. For example information about subjects, how to join the school , teachers in the school
Server	A computer connected to the Internet that holds information that can be shared with other computers	Woking High School website is stored on a computer called a server. As a result anyone who knows the web address can view the website
Uniform Resource Locator (URL)	The protocol or rule for specifying addresses on the internet	 The address – or URL - for Woking High amazon is amazon.co.uk 
Webpages	A document that can be read using a browser since it is written in HTML	There is a webpage on the Woking High Website that gives all the details about computer science
Web address	An address that can be used to locate a web document or web site	 The web address – or URL – for amazon is amazon.co.uk 
Browser	A program or app (application) that is used to access web pages	 The only way we can see pages about Woking High is by opening a browser such as Chrome or Internet Explorer and typing in the web address
Search engine	A program or app that stores information about where to find web pages on the internet	 Google.co.uk will open a search engine that will help us find information on the internet

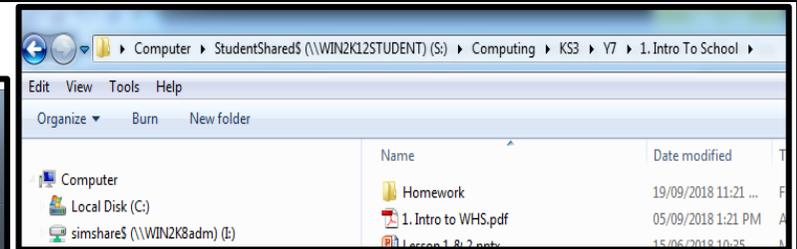
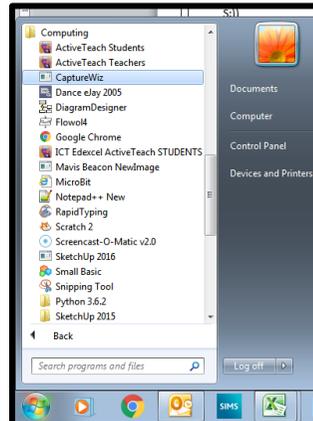
Protocol	A set of rules that defines how something on the Internet works	
Hypertext Transfer Protocol or HTTP or HTTPS	The set of rules that defines how messages on the Internet must be formatted and transmitted	 <p>When a computer connects to a webpage on a server the text and files are sent back using a special format called Hypertext</p>
File Text Protocol or FTP	The set of rules that defines how files can be transmitted between computers	When a computer connects to a server requesting the download of a file, it uses a rule called FTP or file transfer protocol
World Wide Web or WWW	The collection of all the resources and users on the Internet	The computers or servers store information that we can look at. For example map site, social media sites, buying sites. All of these sites have the general name of WWW
Domain name	The part of an internet address that defines the website for webpages	We can often see the name of a company or business by looking at their web address. The part of the web address that shows us the name is called the domain. For example Amazon.co.uk is the domain name for Amazon

Knowledge

Sections

A. Recap of Basic Use of Computers and Computing Rooms

1. Use the Computing Facilities by following the rules set out in the Journals
2. Navigate the school network using Windows Explorer (use My Documents (N: and Student Shared(S:))
3. Locate and launch school system software, eg Word, Excel, Rapid Typing
4. Create and rename folders to store work
5. Use of Word, Excel and Powerpoint to complete unit tasks
6. Use Rapid Typing to use the computer keyboard (rapid typing)
7. Locate, add and change printers on the school network



B. Understanding the Internet – URL's basic searching the Internet

1. Use Browsers such as Google and Internet Explorer to find relevant information to assist with task in units
2. Use search engines such as Google, Bing etc to find focused and specific information for tasks
3. Use keywords, date and country options, (and other filters) to find information on Heroes of Computing



C. Effective searching of the Internet – Boolean, filters

1. Use of AND, OR, speech marks and other filters

D. Recording searches of images and information in a Word document

1. Use common Keyboard Shortcuts for Word, Excel, PowerPoint: CTRL C (copy), CTRL V (paste), CTRL X (cut), CTRL A (select all), Ctrl Z (undo)
2. Formatting documents using Word , including use of table, bold, shading, centering
3. Record and acknowledge sources using a Table Layout

Keyboard Shortcuts	
General	
Ctrl + O	Open a document
Ctrl + S	Save a document
Ctrl + P	Print a document
Ctrl + W	Close a document
Ctrl + Z	Undo
Ctrl + Y	Redo or Repeat
Navigation	
Ctrl + Home	Go to beginning of the document
Ctrl + End	Go to the end of the document

Editing	
Ctrl + A	Select All
Ctrl + X	Cut
Ctrl + C	Copy
Ctrl + V	Paste
Ctrl + G	Go to
Formatting	
Ctrl + B	Bold
Ctrl + I	Italics
Ctrl + U	Underline

My Heroes of the Digital Age	
19 July 2017	
Hero 1 Photo	
Personal Details	
Date of Birth	2 November 1815 to 1864
Town of Birth	Lincoln, Lincolnshire
Country	England
Nationality	English
Reason for being famous	
He wrote a book which contains Boolean algebra	
My Heroes Legacy	
1. Boolean algebra is named after him, as is the crater Boole on the Moon.	
2. The keyword Bool represents a Boolean datatype in many programming languages, though Pascal and Java, among others, both use the full name Boolean.	
3. The library, underground lecture theatre complex and the Boole Centre for Research in Informatics[39] at University College Cork are named in his honour. A road called Boole Heights in Bracknell, Berkshire is named after him.	
How their breakthrough / discovery impacted the Digital Age	
Websites used	
1. https://en.wikipedia.org/wiki/George_Boole	
2. http://www.telegraph.co.uk/technology/google-doodle/11968997/george-boole-google-doodle.html	
3.	

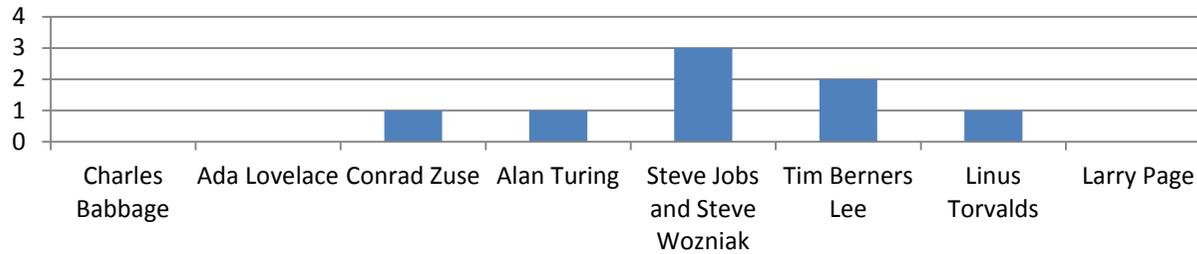
E. Using a spreadsheet to record data

1. Use basic Excel formatting and data entry including row and column layout and sizing, bolding, colour, text wrap,
2. Insert common formulas to construct a Excel Model, eg SUM, Count
3. Creating simple charts with correct layout, eg meaningful title, correct data selection and selection of chart type, use of Key where appropriate,

Heroes in Computing Questionnaire Analysis												
Please help me find out about how much people know about Heroes of Computing												
Age												
		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	Total Age
1	KS3	1										1
7	KS4											
8	Adult											
Gender												
		Total Gender										
10	Gender Male	1		1	1	1						4
11	Gender Female		1	1			1	1	1	1		
Information about our Heroes												
3.0	Which of these Heroes of Computing have you heard about	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	Total Have you Heard
3.1	Charles Babbage	1										1
3.2	Ada Lovelace											0
												0

Heroes in Computing Questionnaire Analysis														
Please help me find out about how much people know about Heroes of Computing														
Age														
		P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	Total Age		
6	KS3	1	1							1	1	=SUM(C6:L6)		
7	KS4			1	1							=SUM(C7:L7)		
8	Adult						1	1				=SUM(C8:L8)		
Gender														
		Total Gender												
10	Gender Male	1		1	1	1						=SUM(C10:L10)		
11	Gender Female	1	1				1	1	1	1		=SUM(C11:L11)		
Information about our Heroes														
3.0	Which of these Heroes of Computing have you heard about	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	Total Have you Heard		
3.1	Charles Babbage											=SUM(C14:L14)		
3.2	Ada Lovelace											=SUM(C15:L15)		
3.3	Conrad Zuse								1			=SUM(C16:L16)		
3.4	Alan Turing								1			=SUM(C17:L17)		
3.5	Steve Jobs and Steve Wozniak	1	1	1								=SUM(C18:L18)		
3.6	Tim Berners Lee				1	1						=SUM(C19:L19)		
3.7	Linus Torvalds						1					=SUM(C20:L20)		
3.8	Larry Page							1				=SUM(C21:L21)		
4.0	Which of the following is the most important 3 inventions?	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	Most Important	2nd Most Important	3rd Most Important
4.1	Designed the first Algorithm	1	1					1	1			=COUNTIF(C23:L23)	=COUNTIF(C23:L23)	=COUNTIF(C23:L23)
4.2	Designed the first program controlled computer											=COUNTIF(C24:L24)	=COUNTIF(C24:L24)	=COUNTIF(C24:L24)
4.3	Developed the first programming language using words	2	2	1								=COUNTIF(C24:L24)	=COUNTIF(C24:L24)	=COUNTIF(C24:L24)

Total Have you Heard

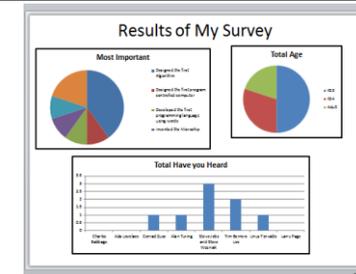


F. Using PowerPoint to present findings

1. Use PowerPoint to help get a message to an audience

What are the main Conventions of a good PowerPoint?

1. One Idea per page with only 1 picture per page
2. Use a Master slide for repeat pictures or text
3. Use consistent theme: same colours, fonts for every slide
4. Use Footer with name, date and page number



Important figures (people).

Helpdesk

Specific skills.

1. Keyboard
2. Use of keywords to search
3. Use of shortcut keys while using OA (Office Automation) Packages, eg ^C for copy, ^V for Paste, ^X for cut,
4. Use of Search engines and filters
5. Copy Paste Organize
6. Use of Word: table, save, basic formatting
7. Use of Excel: Basic formatting and formulas
8. Use of Spreadsheet charts
9. Use of Powerpoint and simple rules for use and formatting
10. Typing Skills via Rapid typing
11. Accessing programs
12. Organising folders