Computer Science   Information Technology   Digital Literacy

St Bartholomew's C of E Primary - Knowledge assessment statements for each year group   Subject: **Computing**

USE IT
OR LOSE IT

Year group	Sticky knowledge				
1	**Creativity** <u>We are digital artists</u> I can paint blocks of colour. I can use the undo tool to correct mistakes. I can paint using different brush strokes. I can create a painting made up of lots of layers. I can choose colours to paint on top of a photo. I can draw an image made up of lines.	**Text** <u>Getting to know your computer</u> I can log on to a laptop I can use a trackpad I can switch on and shutdown a laptop I can launch applications I can manipulate windows	**Text** <u>Beginning to type</u> I can type on a keyboard with 2 hands. To begin to know where letters are on a keyboard.	**Text** <u>Let's type</u> I can type on a keyboard with 2 hands I can save files I can use shift, space and enter correctly. I can use undo and redo. I can make text bold, italic or underline. I can save and retrieve my work in my folder with support. I can edit text using backspace, delete and the arrow keys.	**Coding** <u>We are treasure hunters</u> I can program a Bee-Bot to move. I understand what input, program and output means. I can spot and correct mistakes in a program (debug). I can predict where a set of instructions will take a Bee-Bot or person. I can look for ways to make a program work better
2	**Text** <u>All about me</u> I can type with two hands. I can use shift, space and enter correctly. I can use undo and redo. I can make text bold, italic or underline. I can save and retrieve my work I can edit text using backspace, delete and the arrow keys. I can format the font.	**Coding** <u>We are astronauts</u> I can create sequences of move instructions. I can add instructions to display a sequence of texts. I can record audio and add instruction to play audio. I can use different events to launch code. I can create costumes for multiple sprites. I can create a background.	**Text** <u>(year 2) London PowerPoint</u> I can type with two hands. I can use shift, space and enter correctly. I can use undo and redo. I can make text bold, italic or underline. I can save and retrieve my work I can edit text using backspace, delete and the arrow keys. I can format the font.	**Media** <u>We are animators</u> I can create characters, props or backgrounds. I can take pictures for the animation. I understand that the camera and stage need to stay in the same position. I can make small changes to characters and props between frames. I can perform as a character in the soundtrack. I can give feedback on other pupils' animations. I can use grid lines and ghost.	**Online Safety** <u>We are safe researchers</u> I can find information using a search engine. I know how to report content concerns. I can add and organise questions on a mind map. I can create a presentation. I can add images to a presentation to improve it. I can present my findings to an audience. I know not all information on the internet is true.

	Text	Coding	Media	Online Safety	Coding
3	**Anglo-Saxon Facts** I can use undo and redo. I can make text bold, italic, underline or change case. I can select text in different ways. I can align text. I can cut, copy and paste text. I can insert images. I can type with two hands. I can save and retrieve my work independently	**We are game testers** I understand that computer games are made up of precise instructions for the computer to follow. I understand that programmers implement many algorithms when making computer games. I can describe what happens in a computer game. I can conduct tests to check my predictions. I can spot common features in game algorithms. I can suggest improvements to computer games. I can create sequences of instructions to solve problems. I am aware of age restrictions on games. I can follow the rules for playing a game.	**We are presenters** I can search the Internet for relevant content and make notes. I can evaluate the quality and relevance of sources. I can identify high-quality effective images for my presentation. I can make sure my images and video agree with each other. I can record another pupil's talk. I can give feedback to others based on the criteria.	**We are who we are** I can plan the structure of a presentation. I can create a presentation. I can record a presentation (slide cast). I can add narration to a presentation. I can give constructive comments. I know what personal information is and I know who I can trust with information about	**We are programmers** I can break a scene down into action and dialogue. I can create an animation in Scratch with a program. I can put the blocks of my Scratch script in order. I can create sound and graphics for the sprite and backdrop. I can correct mistakes in my program. I can explain the connection between my storyboard and my animated scene.
4	**Victorians** I can use undo and redo. I can make text bold, italic, underline or change case. I can select text in different ways. I can align text. I can cut, copy and paste text. I can insert images. I can type with two hands. I can save and retrieve my work independently	**We are bug fixers** I can correct 'off-by-one' errors in loops. I can explain how the times-table program works. I can improve the circle-drawing program and explain how it works. I can get the joke scripts to work and describe how they together. I can correct the Pong-style game to make the bounce more realistic. I can experiment with the racing car simulator and describe how it works.	**We are musicians** I can create and edit a repeating percussion pattern. I can play touch instruments and use smart mode. I can create and edit music using the Piano Roll View. I can play a piece of music using live loops. I can add extra loops to a grid. I can combine tracks using recordings, percussion and touch instruments.	**We are bloggers** I can write and comment on blog posts. I understand how to use blogs and write comments safely and responsibly. I know what unacceptable behaviour looks like and can report concerns on blog posts and comments. I understand that blog posts are stored as HTML on the Internet. I can add my own image, audio or video to a blog. I can identify the criteria for an effective blog post	**We are software developers** I can design an interactive educational game. I can develop an interactive educational game. I can put Scratch blocks into the right order. I can use the if/then/else block correctly. I can use the repeat block correctly. I can keep track of random numbers and the score. I can integrate sound into my game. I can correct mistakes in my game.

5	Text	Online Safety	Coding
	Me and my life I can select, edit and manipulate text in different ways I can insert and format an image into a document I can use formatting tools to improve the layout I can use the spellcheck tool I can insert a simple table I can change the size and orientation of the page. I can change the layout by using the column tool I can type at an appropriate speed. I can save and retrieve my work independently	**We are web developers** I can name and describe the function of hardware used to connect computers. I can explain how data is transmitted via the Internet. I understand the difference between the web and the Internet. I understand that web pages are written and transmitted in HTML. I can explain the parts of a URL. I understand the importance of links on the web. I can view and edit the HTML for a web page. I can create a web page that includes images.	**We are makers** I can identify the inputs and outputs for the micro:bit. I can predict and explain what a MakeCode program does. I can test a MakeCode program using the emulator. I can transfer a MakeCode program to the micro:bit. I can design a program for the micro:bit. I can design an algorithm for the micro:bit. I can use my algorithm as a MakeCode program.
6	Text	Online Safety	*Coding* *Lego Prime* *Statements to come at a later date.*
	My story so far I can select, edit and manipulate text in different ways I can insert and format an image into a document I can use formatting tools to improve the layout I can use the spellcheck tool I can insert a simple table I can change the size and orientation of the page. I can change the layout by using the column tool I can type at an appropriate speed. I can save and retrieve my work independently	**We are connected** I know how to have a civil discussion online. I know how search results are selected and ranked. I can search for information on a topic. I can write a post on a topic. I can comment on others' posts. I can argue effectively, using sources. I can counter an argument respectfully I can judge the reliability of an online source I know how to deal with online bullying.	