Smith's Wood Primary Academy

Computing Curriculum – Skills and Knowledge progression document

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
E-Safety					
Can you identify people who are kind and unkind to me online? Do you understand what information can be found online? Can you explain some rules for keeping safe online?	Can you explain who it is safe to talk to online? Do you know what online bullying looks like? Can you explain how to create a safe password?	Do you know what different identities you show whilst you're online? Can you explain the differences in 'trusting someone online' to 'liking someone online'? Do you know how spending a lot of time online influences you?	Can you describe different ways which people may be bullied online? Do you understand that not everyone is who they say online? Do you know that information about you can be shared? How does this effect you?	Can you explain what you would do if you were being bullied online? Do you understand the effect technology has on your body and mind? Can you explain how information online may not be true or real?	Can you identify how technology impacts how you feel about yourself? Do you know how others perceive you online? Can you use the internet safely to research information about a specific topic?
Multimedia					
Are you able to use a microphone to record different sounds? How can these sounds be used?	Can you create a presentation with pictures and text? Are you able to plan an animation on a storyboard?	Are you able to create a presentation with sound, images and text? Can you use a video camera to record and then edit it? Do you know how to improve your video using transitions etc?	Can you combine images, text and sound to create a presentation? Are you able to record different sounds and edit sounds using an appropriate app?	Are you able to create a multimedia presentation using your previous knowledge? Can you create a digital, animated film and record a track to add to the animation? Do you know how to edit film scenes which have already been recorded?	Are you able to create a video compilation adding different elements such as titles and transitions?
Using the Internet					
Can you explain different ways of using the internet to help you?	Do you know what a wiki is? Can you explain how one is used? Can you use a wiki to record facts?	Can you tell the difference between different pieces of work which has been created or copied? Do you understand how to communicate with others online and different tools to be able to do this? Can you explain what an online forum is and how they are used?	Are you able to compose and send an email with an attachment? How do you know which emails are safe to open and send? Are you able to use a search engine to narrow down a search?	Do you know how you can tell if something is copyrighted or not? Can you carry out a refined web search by using key words? How can you tell if information online is reliable?	Do you know what the world wide web is and how it can be used? How can you tell if something is copyrighted and how you can get permission?
Handling Data					
Can you create a simple graph using a program of choice?	Can you choose the correct software to create a block graph?	Are you able to explain what a data logger is and use one confidently? Can you create tables and charts to show certain data?	Do you know how to use spreadsheet software to create tables, charts and graphs?	Are you able to use spreadsheets to calculate costs and alter them? Do you know what a data logger is? How do they work?	Can you explain the purpose of spreadsheets and how they work? Do you know a variety of different functions you can use in a spreadsheet?
Coding and Programming					
Are you able to use words to describe a direction? (whole, half, three-quarter turns). Can you programme the beebot to move around the floor?	Do you understand what the term 'debugging' is? Are you able to make whole, half and three-quarter turns? Can you programme a beebot with an algorithm?	Are you able to sequence commands to programme? Do you know what an algorithm is? Can you explain the purpose of the 'repeat' function?	Are you able to program a set of working commands using Minecraft? Do you know how to use the 'forever loop' function?	Can you explain the use of the 'repeat' and 'variable' functions? Are you able to plan a coding project using an appropriate program?	Are you able to use logical reasoning to explain how simple algorithms work? Can you use Kodu to create a world, add a character and give them commands?
Text and Images					
Are you able to use the space bar and write words in sequence? Can you explain how to save a photo on your computer?	Can you save and import an image from the internet? Are you able to change your font type, size and colour to suit your project?		Are you able to use tools in order to combine images with text in a document? Do you know the purpose of using 'spell check' and 'word count'?		Are you able to create a multimodal text which matches to a specific given genre?