Hale Primary School
Computing progression 21-22

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Mandatory skills	I can do the basics with technology. I can go online. I can use a camera.	I can do the basics with technology. I can take a good quality photograph and video on an iPad/digital camera.	I can save, share and retrieve my digital work. I can use technology to organise and present my ideas.	I can troubleshoot when something doesn't appear to be working with my device. I can discuss different types of digital content and file types.	I can label the different types of input connections on devices. I can explain common file types.	I can make a QR codes that links to my own work. I can film and produce a short video.	I can collaborate to create digital content. I can create a consistent design for my presentation, and present to others.

Computing Science	I can explain an algorithm. I can explain sequencing. I can give instructions to a programmable toy.	I can follow a simple algorithm and create a simple sequence algorithm using symbols that solve a problem. I can create algorithms that can be turned into a program using a robot or digital device. I can independently debug simple sequence errors in a program. I can use logical reasoning to predict the outcome of simple programs.	I can plan out an algorithm with a sequence of commands to carry out a specific task. I can identify 'bugs' in computer programs and use the term debug in context. I can create a simple repeat loop I can create a simple game program I can predict the outcome of a sequence of blocks in Scratch.	I can plan, create and debug programs. I can use decomposition to help me solve computing problems. I can use sequence, selection, repetition and variables in programs. I can work with various forms of input and output. I can use logical reasoning to predict and correct errors in algorithms and programs. I can explain how the internet works. I can explain how a search engine works.	I can design an algorithm to simulate a reallife situation. I can solve an open-ended problem by breaking it up into smaller parts. I can design and write a program for a given purpose including specific programming features. I can test existing programs to see how they could be improved. I can understand the different methods of communication using the internet.	I can decompose a problem, design an algorithm and use this to write a program. I can design and write a program linked to physical systems and sensors. I can use variables, conditional statements, procedures & repeat commands to improve programs. I can use logical reasoning to detect & debug a program. I can explore networks and internet traffic. I can translate binary numbers to decimal. I can create a basic web page using HTML.	I can design, plan & create a complex programs. I can test, debug and modify a program to improve it. I can write a program using a text based programming language. I can use logical reasoning to detect and correct errors in algorithms and programs. I understand how computer networks work, including the internet. I can talk about the way search results are selected and ranked.

Information Technology	I can select and use technology for particular purposes.	I can use technology to create and present my ideas. I can organise and store my digital work. I can collect and sort data.	I can use design and formatting to enhance my digital work. I can create with technology Eg video and animation I can collect data purposefully. and sort data.	I can improve the quality and presentation of my work. I can create with technology. E.g. Video, animation, 3D I can collect, analyse, evaluate and present data and information. I can use advanced search tools	I can improve the quality and presentation of my work using editing and formatting techniques. I can create with technology. E.g. Video, animation, 3D I can use a search engine and I am aware that not everything I read online is correct. (Online Bullying)	I can record and produce a podcast / audio clips I can use unfamiliar technology to create content. I can improve the quality and presentation of my work. I can use a spreadsheet to collect and record data. I can use a search engine and I am aware that not everything I read online is correct.	I can create and combine a range of media in order to produce digital content I can improve the quality and presentation of my work using editing and formatting techniques. I can create a digital storyboard to plan a project or investigation. I can use a search engine and I am aware that not everything I read online is correct and that other people may be attempting to influence my opinions.

Digital Literacy						
I can discuss the use of technology in the world around me. I understand that people can talk to each other (communication) online. I can use a search engine. I can discuss the rules for staying safe online. I know online content is made and belongs to someone.	I can recognise the ways we use technology in our classroom, my home and community. I can use a search engine. I understand something online may upset and know where to find help if anything does. I can communicate politely via the internet. I understand that once something is posted you lose control of it. I can describe how to behave online in ways that do not upset others and can give examples. I know the rules of using technology at home or in school. I can explain what personal information is	I can give examples of how technology is used to communicate beyond school. I understand that somethings online may upset me and that I cannot trust everyone online. (Self Image) I can use online services to communicate safely. (Online Relationships) I understand that once something it posted you lose control if it and know how to get help if I need to. (Online Reputation) I can give examples of online bullying behaviour, I understand the impact it may have and I know where to	I know how to use the internet. I can analyse information and make accurate searches. I understand the need for copyright and the consequences of ignoring it. I am aware of what I should be sharing online and where to go for help if I need it. I understand that I cannot trust everyone I talk to online, that I should be a good digital citizen and where to go for help if something upsets me online. I can explain what bullying is and know where to go for help.	I can collaborate online to create digital content. I can evaluate information presented to me to make informed choices about what is Fake News. I can describe strategies for safe and fun experiences in a range of online social environments and I'm respectful to others online. (Online Relationships) I understand that people may have a different online identity to that in real life and am able to interact with others. (Self Image) I am aware others can find information out about me by searching online. (Online Reputation) I know which technologies are	I can access school email and can send emails to classmates and teacher. I can create a subject specific vlog and understand the potential risks of sharing content online. I can collaborate to develop & improve work. I can search for someone online and create a summary report about that person. I understand the need for copyright and the consequences of ignoring it. I am aware that there are people online who may try to upset me and my group of friends. I	I can explain how to protect my computer or device from harm on the Internet. I understand the need for copyright and the consequences of ignoring it. I support my friends to protect themselves and make good choices online, including reporting concerns to an adult. I am aware of the ways in which the media can shape our ideas about gender. I am aware that if I need help I keep asking for it until I get help. I am aware of the need for positive online relationships and I am mindful of

Computing Progression Statements - end of year
expectations

		and give examples of it. I am aware that content online is owned by the person that created it.	go for support. (Online Bullying) I can use a search engine and I am aware that not everything I read online is true. (Online Bullying) I know the rules of using technology at home or in school. (Health well being) I can explain what personal information is and understand the need for passwords to protect it. (Privacy and Security) I am aware that content online is owned by the person that created it. (Copyright)	I understand the impact technology can have on my health, well being and lifestyle. I know who I should be sharing information with and how to keep my data secure. I understand the term identity and I can take appropriate measures to protect my own online identity.	used for online bullying and I am considerate of others when posting myself. (Online Bullying) I understand the impact technology can have on my health, well being and lifestyle. (Health well being) I am aware that some people want to access my data and can take appropriate measures to ensure this doesn't happen. (Privacy and Security) I understand the need for copyright and the consequences of ignoring it. (Copyright)	make a positive contribution to my online community. I understand the impact online bullying can have and I know what to do if I am the victim or I witness online bullying. I understand the impact technology can have on my health, well being and lifestyle. I can create a strong password and understand the real cost of some apps.	others feelings at all times I understand I need to create a positive online reputation. I know how to capture evidence of online bullying and how to report it. I know how to keep my data private and secure. I understand the impact technology can have on my health, wellbeing and lifestyle.