Long term planning for Computing

The KS1 and KS2 national curriculum (remembering we have half of KS2)

	Understand algorithms • How they are implemented and • how programs execute by following precise and unambiguous instructions.	**Create and debug simple programs**	**Use logical reasoning to predict the behaviour of simple programs**	**Using IT to** create, organise, store, manipulate and retrieve digital content.	**Recognise common uses of IT beyond school**	**Use technology safely and respectfully** • keep personal info private, • identify where to go for help and support about content or contact
Understand computer networks Including the internet, how they provide service and opportunities for communication and collaboration.	**Design, write and debug programs that accomplish specific goals** • controlling physical systems • solve problems by decomposing into smaller parts	**Use sequence, selection and repetition in programs,** **work with variables** and **various forms of input and output.**	**Use logical reasoning** • to explain how some simple algorithms work, • detect and correct errors in algorithms and programs	**Select, use and combine a variety of software on a range of devices** to design & create programs System and content that accomplish given goals including collecting, analysing, evaluating and presenting data / info.	**Use search technologies effectively** • how results are ranked • be discerning in evaluating content	**Use technology safety, respectfully and responsibly** • recognise unacceptable behaviour • identify a range of ways to report concerns about content and contact

	Autumn		Spring		Summer	
Computing topic for the term:	E-safety	Common uses / understand networks / Use IT	Use IT / & search effectively	E-safety refresher Algorithms / physical systems	Programming	Programming E-safety refresher