Yearly Skills & Knowledge Progression
Subject: Computing
Year group: Year 1

	Half Term 1	Half Term 2
Autumn	**Knowledge**: Know how to access technology to create and store digital content (videos, use of Microsoft Word to type information). **Skills:** To create documents to record information using a keyboard. **SMSC**: Children will use creativity and imagination in their learning (spiritual) **BV**: Rule of Law, Individual Liberty	**Application**: **Skill:** To create documents to record information using a keyboard. To use Microsoft Word to record topic or science learning.
	What can make this personal to Dovers Green? *Use of technology during STEM week.* *Ask Karl to talk with the children about the technology we use in school or visit Reigate Library.*	What can make this personal to Dovers Green? *Use of iPads to record their learning.*
Spring	**Knowledge**: Know how to use technology safely and how to keep their information private. **Skills:** To identify adults they trust that they can talk to. If needed, can apply *Zip It, Block It, Flag It.* **SMSC**: Children will begin to understand ways to stay safe when using technology and take part in the national Safer Internet Day (social & moral) **BV**: Democracy, Rule of Law, Individual Liberty, Mutual Respect, Tolerance **Knowledge**: Know some common uses of technology at home and school. **Skills:** Can recognise how they use these technologies. Can use technology to support their learning (Provision: iPads, Beebots) **SMSC**: reflect on own experiences of technology, show a sense of enjoyment & fascination as they learn about the world around them, appreciate that technology has influenced the way we & other people live (spiritual & cultural) **BV**: Rule of Law	**Application**: **Skill:** Can recognise how they use these technologies. To use technology to support learning i.e. photos to record learning, access to IWB during learning time.
	What can make this personal to Dovers Green? ***Safer Internet Day*** *including a workshop for children to engage in.* *Use of school's 'Zip It, Block It, Flag It'.* *Sending emails to other classes to share appropriate information.*	What can make this personal to Dovers Green? *Use of iPads to record their learning.*
Summer	**Knowledge**: Know what an algorithm is and that some devices use algorithms to tell them what to do. **Skills:** Create a simple algorithm. Can predict the behaviour of a programmed toy. **SMSC**: Children will use imagination and creativity to create an algorithm, they will be encouraged to reflect on the success of their algorithms as well as cooperating and compromising with others (spiritual & social) **BV**: Rule of Law, Mutual Respect	**Application**: **Skill:** To predict the behaviour of a programmed toy. To use iPads during learning time to develop skills of algorithms using BeeBot app. Link learning into instructions for English or directions for maths.
	What can make this personal to Dovers Green? *Use of BlueBots and Tactile reader to plan algorithms.*	

The development of SMSC and the promotion of British Values within Computing – Year 1

SMSC	**Spiritual**: Children are encouraged to develop their creativity and imagination when creating their work using coding or a word processing programme. They are encouraged to reflect on their learning to see ways to make it better as well as to identify when an algorithm doesn't work as expected. **Moral**: Children will be developing an understanding of there being a consequence for their actions and behaviour. This will be taught when the children are shown how to use a range of equipment with respect, both for the equipment and also to their peers they are sharing equipment with. This is also important when learning how to behave online. **Social**: Peer learning is encouraged during computing, discussing their learning as well as helping each other to learn and understand different concepts. **Cultural**: The use of technology to support children's knowledge of different cultures, beliefs as well as national and global events that happen. This will be through the use of websites and videos to support children's learning at an age-appropriate level.
British Values	**Democracy;** Encourage respect for democracy by making decisions together when sharing devices. **Rule of Law;** Enable students to distinguish right from wrong when learning about staying safe online. Understanding the rules we have when using different technologies. **Respect and Tolerance;** Encourage students to accept responsibility for their behaviour and be aware of their impact on others, for example, online safety, using a variety of equipment respectfully. **Individual Liberty;** Children should develop a positive sense of themselves. Staff can provide opportunities for children to develop their self-knowledge, self-esteem and increase their confidence in their own abilities, for example through allowing children to talk about their experiences and learning. Understanding that they have the right to use the internet safely as do others.