**Computing at Great Moor Junior School July 2023**

**What does a Computing lesson look like in our school?**

* Lessons will be focussed on either Computer Science, Understanding Technology, Digital Literacy or E-safety
* Children have a 45-minute lesson each week for each class. Lessons are either standalone lessons or part of a sequence of lessons. Many of the skills learnt can then be used in other curriculum areas
* Children will be engaged and enjoying Computing
* Children will work with their talk partners or in groups, and sometimes alone
* Children will be challenged
* Children will gain the knowledge and skills to be creative and safe using computing technology both off and online
* Children will gain a basic understanding of how digital technology works, in school and in the wider world
* When programming they will be learning and using Programming languages and the concepts and attitudes of computational thinking. They will then use their acquired knowledge and practical experience to solve problems and create and implement their own ideas or remix others’ work.
* When the lesson is focussed on Understanding Technology children will be learning what technologies there are, how they are linked, and how they work, gaining a practical experience of using a range of technologies
* When the lesson is focussed on Digital Literacy, they will learn how to use a variety of applications and become skilled at creating high quality content using a range of digital tools and apps for computing and cross-curricular work of their own
* A variety of applications and technologies are used both well-known and cutting edge
* A variety of programming skills are used.
* Many cross-curricular links made with Computing, examples of this are the following: e.g. with art in the use of animation, photography, film and programming.; with design and technology through the use of apps such as Minecraft, and programming in Computer Science; with maths and science through Computer Science and data logging, and data input and analysis with spreadsheets; with literacy through presentations, documents, green screening, blogs, wikis etc.; with History and Geography through research, apps to show historical and geographical knowledge
* Once a half term they will be assessed on what they have learn. Assessments are liked to their knowledge organisers
* Throughout links are with PSHE though e-safety, which is regularly referred to in lessons
* Once a half term discrete E-safety lessons are taught but it is also threaded through other Computing lessons
* Technical knowledge and the correct terminology are used throughout the process. Knowledge Organisers help with this
* Progression is made visible using a Knowledge and skills progression map for each year group
* Children, because of the challenge, are encouraged to have a have a growth mindset and respond positively to challenge. They persevere with tasks and challenge themselves, using the “Secrets of success “, and developing their skills of Computational Thinking.
* Children have opportunities to evaluate their success at learning against teacher created or peer created success criteria and with a final summative assessment

**How does Computing work at Great Moor Junior School?**

* Computing is taught by class teachers or Mr Gill in Years 3, 4, 5 and 6
* The *National Curriculum in England: Computing Programme of Study* is followed and covered.
* Computing sessions are either standalone or part of a sequence of lessons covering a wide range of topics.
* The aim is that the range of topics are creative and of practical use enabling all students to be ready for High School with the necessary skills.
* Areas of the curriculum are covered in depth over a series of lessons throughout a term.
* The Secrets of Success (and other PSHE work), along with praise and modelling of positive responses to challenge, foster a growth learning attitude in the children. Mistakes are viewed positively and are used to support learning.

**What Assessment takes place?**

* The aim of assessment, both formative and summative, is for pupils to know what they are doing well in Computing and what they need to do to improve their work in Computing
* Assessment statements are divided up into year groups and sections based on the four strands of Computer Science, Digital literacy, Understanding Technology, and E-safety
* Age related expectations are reviewed by teachers and pupils and swiped or ticked to show achievement eithers in their computing books or online
* Formative assessment in the form of verbal feedback is the main tool during and after each lesson
* Summative assessment is give regularly each half term
* The children regularly self-assess and reflect on their progress
* At the end of each half term, teachers using evidence from the half term consider how pupils are achieving and EMX is used to determine the ability of each children in the topic/area covered
* Over the year, the computing coordinators assess how lessons and planning is working through regular monitoring and is reviewed at the end of the year through checking tracking of pupils both via gender, SEND and PP.