# Carleton Rode CEVA Primary School
# Computing

***"Let's go invent tomorrow rather than worrying about what happened yesterday."***
**Steve Jobs**

| Our Vision | Our Values |
|---|---|
| ***'Love your neighbour as yourself'***<br>***'Be yourself, but be your best self.'***<br><br>Computing at our school aims to embody our school vision. The intention is to inspire children to be the best version of themselves through inspiration, creativity and self-expression.<br>"Being your best self" in computing involves staying curious, taking advantage of these resources, and continuously upgrading skills to adapt to evolving technologies. | ***Kindness***<br>Teaching students about digital citizenship emphasises the importance of being kind, respectful, and considerate online. This includes promoting positive interactions, discouraging cyberbullying, and fostering a supportive digital environment.<br><br>***Honesty***<br>Emphasising the importance of honesty in online interactions involves educating students about the risks of sharing personal information, the consequences of cyberbullying, and the ethical use of digital resources.<br><br>***Perseverance***<br>Engaging students in project-based learning experiences encourages perseverance. Completing a programming project requires sustained effort, and overcoming obstacles contributes to the development of a growth mindset. |

| Intent | Implementation | Impact |
|---|---|---|
| At our school, we recognise that huge advancements in technology have been made in recent years, and now, more than ever children are surrounded by and often immersed in a technological world. We believe that technology will continue to evolve during the time our children are at school and we need to equip the children with the skills and knowledge they need to adapt and flourish with the ever-changing technological advancements. While developing their skills in computing we will also emphasize the importance of using technology safely, particularly in the online world. In all aspects of computing, we encourage children to be original and imaginative, fuelling their creativity using a range of equipment and programs to engage and inspire pupils. We will challenge pupils to deepen their knowledge and skillset further, as well as giving them an understanding of how the programs and technology they experience relate to their use in the wider world.<br><br>Technology is something children are going to grow up with, learn about and master, and use as a tool to increase their understanding in all areas of learning.<br><br>Our hope for the children is that they find enjoyment in their computing skills, that they recognise the application of these in different areas of their learning, that they can be creative in the tools and programs they use, finding new and innovative ways to carry out tasks. By the time children are ready to leave us we want them to be fluent with a range of tools to best express themselves and their ideas. Above all we want our children to leave with the independence and confidence to choose the best tool to fulfil a task, to be open and adaptable to new and ever-changing technology and to embrace computing as a means to express themselves creatively, recognising the implications for technology beyond school. | At our school we teach children according to the National Curriculum objectives which we support with the use of Teach Computing.<br>We have identified the key vocabulary that children will be introduced to as they progress through the school, clearly highlighting prior learning, so that children can continue to recall and retain this as well as broadening their computing vocabulary, which hugely supports their understanding of the purpose and functionality of what they are doing in computing.<br><br>We discuss the different purposes and uses for technology that children may experience in school and at home.<br><br>From a young age we want our children to recognise the purposes for using technology beyond school as well as allowing technology to engage and motivate them in their learning. Early experiences form a foundation upon which our children in KS1 and KS2 can build upon, and this is reflected in our curriculum.<br><br>We use the Teach Computing scheme of work to help support the teaching of these key skills and knowledge, and embedded within this scheme is also valuable CPD support for teaching staff to enable them to deliver this to the best standard possible.<br><br>Whilst Computing is taught discreetly, the use of technology to enhance and enrich other areas of the curriculum is strongly encouraged throughout the school. In our School we have an additional E-Safety curriculum, some of which is delivered within the Computing units that we teach to the children. However, each year group also delivers additional sessions explicitly throughout the year to further reinforce this. | The impact of the computing curriculum can be seen in the digital work children save as well as the assessment of pupil's knowledge and skills during lessons, where notes are made and stored in class teacher's assessment files to support their assignment of outcomes.<br><br>Through this, tracking misconceptions can be addressed as well as identifying those learners who can be challenged further, ensuring all children can achieve their computing potential.<br><br>The assessments made are used to inform parents at parents' evenings as well as in an annual report to parents. We encourage our children to enjoy and value the curriculum we deliver. We want learners to discuss, reflect and appreciate the impact computing has on their learning, development and well-being. Finding the right balance with technology is key to an effective education and a healthy life-style.<br><br>We feel the way we implement computing helps children realise the need for the right balance and one they can continue to build on in their next stage of education and beyond. |

| Progress | Content & Sequencing | Enrichment |
|---|---|---|
| Our Computing curriculum is designed to equip our children to safely use a range of information technology. The skills they learn in Computing help to prepare them to use and engage with the technology they will use later in life. Computing allows our children to develop skills in finding, exploring, sharing and presenting information.<br><br>These skills support our children to problem-solve, investigate and express themselves in a variety of ways, using a variety of forms. At the core of our curriculum is safe use of the internet; we teach children about staying safe when using the internet and how to behave responsibly online.<br> | Our teaching sequences are planned to ensure coverage of the National Curriculum. Prior learning is built upon and misconceptions are addressed. Relevant vocabulary is taught and used throughout each lesson; teachers refer to the vocabulary section of the progression document to ensure an appropriate level of challenge.<br><br>Teachers use our progression of skills document to ensure previous concepts are built upon and that children's knowledge is deepened within each year group.<br> | We have a range of laptops and iPads for children to use. Children are taught from an early age to safely, independently access these.<br><br>Children, particularly in KS2, are encouraged to log onto a range of games and websites at home, for example Numbots and TT Rockstars to consolidate learning.<br> |

| Spiritual Development | Cross-curricular links | Monitoring the Impact |
|---|---|---|
| Children have opportunity to express themselves, develop and present ideas. Children care about what they communicate and share online and are respectful and mindful when keeping themselves and others safe online.<br> | Teachers will always make links to other subjects across the curriculum. Examples include using spreadsheet and graph software in Maths and Science, using PowerPoint to create presentations in History and Geography and using Word to type up a newspaper report.<br>Not only do these links provide children the opportunity to practice and develop the skills learnt in Computing, but they also give purpose and meaning to the work.<br> | The teaching and learning of Computing is monitored by the Computing lead. Monitoring tasks include pupil book study, termly learning walks, data analysis and pupil voice. Teaching staff also feedback on successes and areas needed further focus.<br>The subject lead will then create an annual report which is shared with governors.<br> |

| Global Diversity | Financial Understanding |
|---|---|
| Exploring the contributions of individuals from diverse backgrounds to the field of computing,<br>And highlighting the global nature of technological advancements will all promote<br>Global Diversity within our curriculum.<br> | Concepts such as online payments, e-commerce, and the importance of secure financial transactions in the digital age are all areas which students will be exposed to during their time within our school.<br> |