

COMPUTING LEARNING JOURNEY

EARLY YEARS



At TRPA, we passionately believe in equipping children with the subject knowledge and skills to build on their learning as they progress through the school. In Early Years the focus is on getting children familiar with the different forms of computational technology and their purposes in our everyday lives. In our Early Years Unit, children learn about technology and how it works through Understanding the World. Children use technology within the classroom and become familiar with how devices can support their learning. Our Early Years team prioritise teaching children the importance of internet safety and being a good online citizen.

KEY STAGE 1

Moving into Key Stage 1, we build on the knowledge of technology in our world and start to introduce computational thinking and problem solving through programming. We want Children to begin to understand the particular purposes technology can be used for and how text and images can be used to communicate ideas. Hand in hand, Children develop their skills in typing, selecting tools and organising information. As Children start to learn how to communicate using technology, they also develop their creativity in using technology through recording video or sound, and also develop their editing skills. Children build on their experience in Early Years to make links to how they use technology outside of the classroom. They begin to think about the benefits of using technology in their lives, making links to learning about online safety. Once this skill is established, Children can see how they can influence technology by developing their programming skills to determine output. They begin to understand that an algorithm is a series of steps for solving problems and a code is a series of steps that machines can execute. They start to explore debugging, predicting when codes may not work and changing them.

Children are encouraged to consider how they can be responsible, positive online citizens and are given the skills to identify potential harmful online activity and how to deal with it.



LOWER KEY STAGE 2

With a strong building blocks in place from previous learning, when they reach LKS2 Children continue to develop their skills of formatting using keyboard command and organising their work. In LKS2, they will have the opportunity to express themselves more through digital technology, art, PowerPoint and posters. Children continue to demonstrate control when operating tools as they did in KS1. Children develop their editing skills further by cropping, organising and arranging film clips. They are able to share work and offer feedback and ideas for improvement with animation and film, giving their opinion on which software to use. In LKS2, children also look at the history of animation and reflect upon the changes over time.

