Creative Curriculum - | Computing Overview

	Autumn	Spring	Summer
3	**Into the Woods** **Challenge:** ***How can we improve our green spaces so we can create a better environment for animals and people?*** Children will learn how to use technology safely and responsibly. E-mails will be sent and search engines used effectively to collect, present and evaluate information found.	**Alive and Kicking** ***Challenge: How can we encourage others to make healthy choices?*** Children will design and create a questionnaire. The responses obtained will be evaluated and presented. Children will create a multi-media animation using moving characters and sound.	**Victorians** ***Challenge: How can we use evidence of the past so that we can design something for the present?*** Children will use begin to code, writing a set of algorithms including the repeat and If/then command. They will become familiar with the vocab of algorithms and debugging. Children will develop basic photography skills as they learn how to take a photo and record a video.
4	**Tip of the Iceberg** ***Challenge: How can we produce a factual magazine for junior children so that we can educate others about environmental changes?*** Children will use their research to create a Wiki-collaboration Children will build on their photography skills from year 3 and begin to manipulate photos taken using resizing, rotating and editing effects.	**Invasion** ***Challenge: How can we create a video, which can be used as a teaching resource for Year 3 – to inspire them about history?*** Children will use a green screen to create an educational clip, using narration, photos and videos. Children will use GarageBand to create digital music using elements such as layering and looping.	**Happy and Glorious** ***Challenge: How can we celebrate our Multi-cultural heritage, so that we can bring different community groups together?*** Children will learn about databases and their uses. They will search a branching database as well as create their own with information gathered. Children will code using scratch. They will create their own background, move their sprite across the screen and use conditional statements within algorithms. Vocabulary such as: sprite, navigate, inputs, algorithms and debug will be explored and used.
5	**To Infinity and Beyond** ***Challenge: Can we create a space-themed science fair so we can educate and inspire children from our Multi-Academy Trust schools?*** Children will code and create their own game using Kodu. They will program their Kodu to move and test and refine their algorithms. Children will create an E-book which includes pictures, text audio and video.	**Catastrophe** ***Challenge: How can we help people affected by catastrophe so we can make a positive difference to their lives?*** Children will create a blog which includes multi-media. Children will create a spreadsheet using accurate data and relevant formulas. Graphs will be created from the generated data.	**The Greek Olympics** ***Challenge: How can we draw on the legacy of the Greek Olympics to create a current school Olympics?*** Children will use Google Sketch Up to create a 3D design using arc, line and paint bucket tools. Children will have the choice to create a resource clip using a medium of their choice. They will draw on previous skills and take photos, record voice and effects and edit and refine their resource clip.

6	**Blitz and Pieces** ***Challenge: Can we create a memorial for our local fallen heroes so that they are not forgotten*** Children will build on their coding skills from Year 4 – and use scratch to create a game. They will make comparisons between different coding applications	**Evolution** ***Challenge: Can we create a documentary so we can share our knowledge with children from our Multi Academy Trust?*** Children will create a movie trailer, using audio, photos and video. Files will be combined, manipulated, edited and refined for a target audience. Children will design their own spreadsheet using accurate data. Functions such as sort and filter will be used alongside formulas.	**Let Us Entertain You** ***Challenge: How can we entertain the different groups in our community?*** Children will create a website including multi-media relevant to a target audience. The website will be evaluated and made 'live' for others to view. Children will be 'online safety leaders' – where they will decide on how they want to inform others about online safety issues. It is an opportunity for the children to be independent learners.

Microsoft packages such as Word, PowerPoint and Excel are still taught throughout the curriculum.