

Information and Communications Technology



ICT planning with Sustainable Travel Links for KS1

Objectives:	Pupils should be taught to: <ul style="list-style-type: none"> • understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • create and debug simple programs • use logical reasoning to predict the behaviour of simple programs • use technology purposefully to create, organise, store, manipulate and retrieve digital content • recognise common uses of information technology beyond school • use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns
Success Criteria:	<ul style="list-style-type: none"> • Use of precise instructions when implementing algorithms • Simple programming techniques to create and debug programs • Reasoning to predict behaviour and simple explanations why that reason might have been incorrect • Purposeful application of storage and retrieval • An understanding of how technology is used beyond the school • Knowledge of how to keep safe when using the internet
Activity Ideas <ul style="list-style-type: none"> • Use of programmable devices such as Roma to follow directions on a map of the school site or school vicinity, mapping their journey to school and giving precise instructions using positional and directional vocabulary • Using pedometers to ascertain how far/fast people walk and what could be done to improve fitness. Count and measure steps • Taking photographs of bikes, scooters, cycle storage etc. and classifying that information in different ways (e.g. date, title, type, size) • Thinking of devices such as speed cameras, speed reminders and pelican crossings, how do they store information and use timers? 	Assessment <ul style="list-style-type: none"> Can use precise instructions when implementing algorithms Can use simple programming techniques to create and debug programs Can use reasoning to predict behaviour and explain why those predictions might have been incorrect Can purposefully apply storage and retrieval Can explain how technology is used beyond the school Can understand how to keep safe when using the internet

See also “Websites to support Sustainable Travel in primary schools” in the “Overview” section