Subject: Computer	Year:2016-2017	Subject leader:	Tim Filby

Key Stage 1 Curriculum Objectives
Pupils should be taught to:
- 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 about content or contact on the internet or other online technologies.

Year Group	Autumn	Spring	Summer
1	1.1 **We are treasure hunters** Using programmable toys **1.2We are TV chefs** Filming the steps of a recipe	**1.3 We are painters** Illustrating an eBook **1.4 We are collectors** Finding images using the web	**1.5 We are storytellers** Producing a talking book **1.6 We are celebrating** Creating a card electronically
2	**2.1** We are astronauts Programming on screen **2.2 We are games testers** Exploring how computer games work	**2.3 We are photographers** Taking, selecting and editing digital Images **2.4 We are researchers** Researching a topic	**2.5 We are detectives** Communicating clues **2.6 We are zoologists** Recording bug hunt data

Year Group	Autumn	Spring	Summer
3	**3.1 We are programmers** Programming an animation **3.2 We are bug fixers** Finding and correcting bugs in programs	**3.3 We are presenters** Videoing performance **3d printing** – designing simple 3d models	**3.5 We are communicators** Communicating safely on the internet **3.6 We are opinion pollsters** Collecting and analysing data
4	**4.1 We are software developers** Developing a simple educational Game **4.2 We are toy designers** Prototyping an interactive toy	**4.5 We are co-authors** Producing a Weebly website – simple website design **4.6 We are meteorologists** Presenting the weather	**4.3 We are musicians** Producing digital music **3d printing** – designing simple 3d models
5	**5.1 We are game developers** **3d printing** – using brief to design and evaluate different 3d models	**5.3 We are artists** Fusing geometry and art **5.4 We are web developers** Creating a web page about cyber safety	**5.5 We are bloggers** Sharing experiences and opinions **5.6 We are architects** Creating a virtual space
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