

Unit Overview	In this unit children will learn how to program the Micro – bit to show a volcanic eru animation and then repeating to create an effect. They learn why it is important to d	
Prior Learning/ Links		<u> </u>
Unit Title:	Substantive Knowledge	Disciplinary Knowledge
Key Questions: What is de composition? Why is repetition so important? What is an algorithm? Why do we test and de - bug?	 Children know that decomposition can be used to record steps to a process. Children can record simple steps in a sequence using a flip animation. Children can write simple flow chart algorithms plotting a sequence of moves. Children can explain the importance of repetition in a sequence. Children know how to program a micro – bit to re create a volcanic eruption. Children can describe the sequence they have used and how it works. Children know why it is important to test and de – bug a program so that there are no glitches. Children are able to explain how to test and de – bug a program. Children can evaluate their work using substantive and disciplinary knowledge. 	 Critical Evaluation To test and de – bug programs so they work effectively. Purpose/Audience or Design Use design to make a product fit for purpose and for a specific audience Making/ Technological Knowledge Selecting tools and materials appropriate for tasks. Explain choices made to construct a product based on characteristics -
Vocabulary	Trips/ Visits/Useful Websites/ Resources	Key Misconceptions:
Substantive: Algorithm De – bug Repetition Decomposition Flip animation sequence Disciplinary: Program Choices Testing Design	Micro:bit Educational Foundation micro:bit (microbit.org)	



Unit Planner – Design Technology Year: 6 Title: Micro Bits Volcanic Animations

Effective	