Knowledge Organiser

Year 5 – Autumn Term – Data Handling: Mars Rover (Binary code)

What I should already know	Key Knowledge	Key Vocabulary			
How to search the web efficiently. How to use a spreadsheet to record data. How to create a video. Things I need to know how the Mars Rover transmits the data back to Earth and the challenges involved in this. How to read any number in binary, up to eight bits. How to read binary numbers and grasp the concept of binary addition. This will help me in the future:	What is binary code is a code used in computers, based around the binary values of 0 and 1 All decision carried out by a computer are done in binary. What is numeric al data? Is information that is based on numbers and digits What is data? Data is information used for a specific	a	Binary value 0 0 0 0 0 0 1 0 0 1 0 0 0 1 1 0 1 0 0 0 1 0 1 0 1 1 0 0 1 1 1 1 0 0 0 1 0 0 1 1 0 0 1 1 0 0 from one or moranother.	ormation	Discovery – When something is intentionally or unintentionally found. Distance – The amount of space between two places or objects. Input – Information sent to a computer by an input device such as a keyboard or mouse for processing. Mars Rover – A robotic vehicle that explores investigates and returns data about the terrain of Mars. Output – Information or data that is sent by the computer to an output device such as a printer or speakers. Radio signal – A radio wave that is sent or received somewhere.

Applying what I have	purpose of	Sequence – A set order or
learnt on independent	investigation.	pattern for something to
projects.		follow.
Use an online		Signal – A voltage, current or
community		electromagnetic wave that is
responsibly.		either sent or obtained.
		Computer simulation –
		Computer generated imitation
		of something such as a
		program test or product
		prototype.