Jerry Clay Academy
Subject Knowledge Organiser

Subject: Computing   Year Group: 4  Term: Autumn 2

## Core Learning of This Unit: We are makers
- About the input – process – output model of computation
- About the inputs and outputs available on a BBC micro:bit
- To program using the MakeCode blockbased environment
- To test and debug programs they write, using an on-screen simulator and the micro:bit
- How to convert and transfer a program written on screen to the micro:bit.

## Prior Learning:
- We are software developers

## National Curriculum Statements:
- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems.
- Use sequence, selection and repetition in programs; work with variables and various forms on input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

## Key Vocabulary:
- Accelerometer
- Algorithm
- Bluetooth
- If/else if/else
- JavaScript
- LED
- MakeCode
- Micro:bit
- Object code
- Runtime
- Simulator
- Source code
- Variable

## Significant People
- Sebastian Thrun– google self driving car