Lodge Farm Primary School- Knowledge Organiser

Computing Topic: Hardware investigation and Making music.	Year: 4 Term: Summer 2

Key Knowledge/Content Hardware investigation:
- To understand the different parts that make up a computer.
- To recall the different parts that make up a computer

Key Knowledge/Content Making Music:
- To identify and discuss the main elements of music.
- To understand and experiment with rhythm and tempo.
- To create a melodic phrase.
- To electronically compose a piece of music.

Links to:
Prior learning:
Technology outside of school
Effective searching
Making Music
Future learning:
Networks
Game creators

Key vocabulary with definition Hardware investigation:
Prior Vocabulary
- Output - Where information leaves the system.
- Peripherals Parts that are attached to the computer case.
- RAM - Allows programs to store information to help the computer run quickly.
- Software - The programs that run on the computer.
New Vocabulary
- Components - Parts inside the computer casing.
- CPU- The 'brains' of the computer, where all the calculations take place.
- Graphics Card - Also known as a video card and used for displaying images.
- Hard Drive - Where the computer stores all your documents, pictures, games and videos.

Key vocabulary with definition Making Music: Prior Vocabulary
- Synths - Short for synthesizer. Electronic musical instrument sounds
.### New Vocabulary
- Melody - A sequence of notes which make up a tune. Pitch How high or low a sound is.
- Pulse - The steady beat of a piece of music.
- Rhythm - A pattern of long and short sounds and silences.

By the end of this unit
All children can: explain what a hardware is and **distinguish** between rhythm and tempo.

Most children can: will be able to **create** a leaflet to share their understanding of computer hardware and **utilise** the tools within Busy Beats to create a melodic phrase.

Some children can: recognise the components of hardware and **create** more complex rhythms.

Background understanding for teachers and parents:
Hardware is the physical components of the computer, such as the central processing unit (CPU), hard disk, monitor, keyboard and mouse. Software is the programs that run on a computer. Hardware is the physical components of a computer. Children are also taught how to use create music using digital tools.

Curriculum Driver (one):
Understanding the world
Evidence outcome:
Children gain further understand into the physical components of a computer.