Concept Map–Computing

Programming

In Year R we will learn...

Bee-Bots can be made to move through instructions

Directions can be given, such as forwards and backwards

In Year 1 we will learn...

A command is an instruction that tells a computer to perform a specific task.

Combining commands creates a sequence.

In Year 2 we will learn...

An algorithm is a set of instructions.

To debug means to remove mistakes to improve outcome.

To navigate is to plan a route.

Computing Systems and Networks

In Year R we will learn...

Technology needs the use of your hands (fine motor skills).

Bee-Bots are a type of technology (robot).

In Year 1 we will learn...

A computer has a screen, mouse and keyboard.

A laptop has a mousepad.

I can locate essential keys on a keyboard i.e. space bar, enter.

In Year 2 we will learn...

Technology is used within various industries.

There are many benefits to the use of information technology i.e. communicating.

Information technology is used to store, retrieve and send information.

Creating Media

In Year R we will learn...

Digital art pieces can include shapes, lines and colours.

In Year 1 we will learn...

Technologies can be used to create digital art.

Technology can be used to experiment with colour, design, texture, form and function.

Evaluating choices allows work to be improved.

In Year 2 we will learn...

Technologies can be used to take photographs.

Portrait is vertical.

Landscape is horizontal.

Editing can be used to change lighting and effects of a photograph.

Online Safety

In Year R we will learn...

I know that there are good and poor choices when using technology.

I know to behave sensibly when using technology.

In Year 1 we will learn...

My behavioural choices online can affect others.

I need to ask for permission to access online content.

Information I put online will stay online and can be copied.

A trusted adult can be a parent/carer, family member, teacher or school staff.

A password can protect my information.

In Year 2 we will learn...

Anyone's online information can be seen by others.

I can talk to a trusted adult if I haven't given consent for my information to be online.

I know how to look after my wellbeing when using online technologies i.e. taking breaks to prevent eyes getting too tired.

Information found online could be true or made up, and should not always be trusted.