



Oaklands Community Primary School - Computing Knowledge Builder

| | Programming | Data & Information | Creating Media | Computer Systems & Networks |
|----------------------------------|--|--|---|--|
| E Y F S | <ul style="list-style-type: none"> In technology, buttons do different things | <ul style="list-style-type: none"> Technology shows information such as text, pictures and videos | <ul style="list-style-type: none"> Pressing a key on a keyboard make a letter or a number appears | <ul style="list-style-type: none"> Technology can be found at home and school |
| Y E A R 1 | <ul style="list-style-type: none"> A Beebot is a programmable toy 'Debug' means to find and undo an error Programmable animations can be used to make pictures move | <ul style="list-style-type: none"> A pictograph is a graph that uses pictures or photographs Objects can be grouped and sorted using their properties | <ul style="list-style-type: none"> Animation is used to make pictures appear to move A website is on the internet and gives you information Appropriate tools in a program can create art e.g. clipart Computers create and format text | <ul style="list-style-type: none"> Technology helps us at home and with our learning when used responsibly |
| Y E A R 2 | <ul style="list-style-type: none"> The order in which things need to be done for something to happen is called an algorithm Scratch is a coding programme | <ul style="list-style-type: none"> Different charts and graphs can be used to organise and present data | <ul style="list-style-type: none"> A computer is a tool to make a musical composition Digital photographs can be captured and changed for different purposes | <ul style="list-style-type: none"> Technology is used in the school and world to often make things easier A search engine is used to find information about a topic |
| Y E A R 3 | <ul style="list-style-type: none"> Algorithms are sets of instructions that are used to perform a task Sequences in block-based programming can be used to make music | <ul style="list-style-type: none"> Some data is organised in spreadsheets and databases Branching databases are used to group objects using yes/no questions | <ul style="list-style-type: none"> A stop-frame film is a film created with still images where frames are shot at a slow rate to produce a story Text, images and page layouts can be modified for a specific purpose | <ul style="list-style-type: none"> Digital devices have inputs, processes and outputs |
| Y E A R 4 | <ul style="list-style-type: none"> An algorithm helps sequence more complex programs to make music Loops can be used in programming alongside count controlled blocks | <ul style="list-style-type: none"> Data is a collection of facts and information Data loggers can collect data over time and be used to carry out an investigation | <ul style="list-style-type: none"> You can capture and edit audio and sound files These files can be changed (manipulated) for a required purpose | <ul style="list-style-type: none"> The internet is a network of networks |
| Y E A R 5 | <ul style="list-style-type: none"> Conditions within a program can be explored using a microcontroller Selection can be used in programming to help design a code | <ul style="list-style-type: none"> A database can create charts to answer questions | <ul style="list-style-type: none"> Video can be captured and edited Layers can be used in a drawing program to create images | <ul style="list-style-type: none"> A search engine is a software system designed to carry out web searches A reliable website consists of a recent date, reliable links and a good tone. Anything posted online can be seen, used and may affect others |
| Y E A R 6 | <ul style="list-style-type: none"> Algorithms contain steps that can include variables Variables are used when designing and coding a game Inputs can be captured through a physical device | <ul style="list-style-type: none"> Spreadsheets are used to organise and collect data, and to answer questions | <ul style="list-style-type: none"> A non-linear presentation is of no order or structure 3-D computer models can help model physical objects | <ul style="list-style-type: none"> Data can be transferred and shared online Copyright gives the owner of their work the right to decide what other people can do with it |