

Lakeside Primary Academy

Information Technology

Digital Literacy

Control Systems

Year 6

Key Vocabulary

Definition

Relational operators	Relational operators allow for assignment and enable comparisons to be made.
Flow chart	A flowchart is a diagram that represents a set of instructions
Classify	to group or order in classes.
Retrieve	the process of obtaining or extracting information.
Bias	Prejudice for or against a person, group or idea that is based on personal opinion rather than objective facts.
Authenticity	Real, genuine or true.
Plagiarism	when you use someone else's words or ideas and pass them off as your own.
End user	The person who uses a product.

Knowledge

- Understand that sensors can be used within programmes.
- I can explore 'what if' questions by planning different scenarios for controlled devices.
- Understand and appreciate how search results are ranked and how this affects the end user.
- Discuss and explore the use of ICT to sort, organise and classify objects based on their properties.
- Understand the impact of an individual sending or uploading unkind or inappropriate content.
- Understand what 'Plagiarism' means and that it is important to acknowledge sources.
- Understand that not all information on the internet is legal to use or copy
- Understand that we are all digital citizens and the potential impact and influence we can have on the outside world
- Know the meaning of common website extensions (.org, .net, Gov etc) Identify secure servers (padlock such as internet banking).
- Become increasingly savvy online consumers: know that algorithms are used to track online activities with a view to targeting advertising and information.

Skills

- Use logical reasoning to detect errors in more complex algorithms
- Combine a variable with relational operators (< = >) to determine when a program changes, e.g. if score > 5, say "well done"
- Design a physical computing system that uses sensors, e.g. using a flow chart
- Refine a program based on end user feedback.
- Select and combine software on a range of devices
- Collaborate with individuals and groups to create digital content for a specific purpose.
- Use ICT to create and modify charts quickly and easily.
- Create databases, retrieve information and draw conclusions based on results entered.
- Find suitable images, video and sounds from appropriate sources, taking into account copyright issues.
- Remix and edit a range of media to create content.
- Use appropriate ICT resources to compose music or sounds to accompany a story.
- Choose appropriate hardware to capture and review a range of images, considering lighting, positioning, sound quality and angle.