



Computing Curriculum Aims

Subject Lead: Charlotte To



Bishop Gilpin CE Primary School

Aims: To create a **firm foundation for a lifetime of learning** by enabling all children to learn computer literacy skills, including how to stay safe, to prepare them for an ever-evolving world.



Computer Science

The core of our computing curriculum is computer science, in which pupils are taught the principles of information and computation, how digital systems work and how to put this knowledge to use through programming.

Pupils will learn how to:

- Decompose, identify patterns, design, write and debug programmes that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- Use sequence, selection, and repetition in programmes; work with variables and various forms of input and output
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programmes
- Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web Appreciate how [search] results are selected and ranked



Digital Literacy

Digital literacy at Bishop Gilpin can be defined as: “The ability to locate, organise, understand, evaluate, and create information using digital technology.” Digitally literate people can communicate and work more efficiently, especially with those who possess the same knowledge and skills. Digital literacy is the ability to understand and use digital technologies effectively for everyday tasks.

Pupils will learn how to:

- Understand the opportunities [networks] offer for communication and collaboration
- To use a range of software to create, share and evaluate information
- Be discerning in evaluating digital content
- Identify a range of ways to report concerns about content and contact
- Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour;
- Keep personal information private;
- Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies



Information Technology

This is the teaching of how to use technology purposefully to create, organise, store, manipulate and retrieve digital content.

Pupils will learn to:

- Use search technologies effectively
- Select, use and combine a variety of software (including internet services) on a range of digital devices
- To design and create a range of programmes, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information e.g. web design, spreadsheets and digital images