Computing

Computing equips pupils to use computational thinking and creativity to understand and change the world

Intent:

The computing curriculum will ensure that all pupils:

- Have an understanding of the connected nature of devices
- Are competent in coding for a variety of practical and inventive purposes, including the application of ideas within other subjects
- Are able to connect with others safely and respectfully, understanding the need to act within the law and with moral and ethical integrity
- Are able to collect, organise and manipulate data effectively
- Can communicate ideas well by using applications and devices throughout the curriculum
- Are responsible, competent, confident and creative users of information and communication technology
- Understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation

Pupils' version

> **When online, I am responsible, respectful and follow the online safety rules.**
>
> **I will develop skill, confidence and understanding necessary to make the most of an evolving digital world.**
>
> **To be safe, inspired, creative, connected digital citizens.**

Implementation:

Teachers will:

- Plan and deliver lessons to ensure that all pupils learn the importance of being responsible and safe online, understanding the legal and moral implications in order to minimise the risk to themselves and others;
- Ensure the curriculum focuses on the progression and continuity of skills over time to help pupils develop skills in coding for a range of practical and inventive purposes;
- Develop effective pedagogy to teach pupils with their own or shared devices; both in class and remotely;
- Ensure the curriculum planning covers appropriate software packages such as Microsoft Office and Google Suite.
- Ensure that real-word practical application and career guidance are at the heart of the delivery;
- Embed opportunities for pupils communicate their ideas and processes
- Carefully monitor pupils progress against key milestones and take swift actions to support those who fall behind
- Celebrate pupils' work through classroom displays, school exhibitions and competitions throughout the GLC and the wider community;

Impact:

Pupils will:

- Understand and follow the online safety rules and to keep them safe online in order to be a responsible and respectful digital citizen;
- Be confident when using applications, programs and in various settings throughout their lives;
- Have a 'can do' attitude when engaging with technology and its associated resources;
- Have the skills of a digital citizen and as a result, will achieve well.