WMG INTENT

> *"Those who can imagine anything, can create the impossible"*
> *— Alan Turing*

Computer Science and Information Technology Curriculum Intent

By the end of their learning journey in Computer Science we intend for our students to be proficient in decomposition, abstraction, and computational thinking. Students will be able to apply these skills in a range of real-world situations. Students will be familiar with a series of different programming constructs and apply these in set situations.

Students will develop skills in numeracy, literacy, problem solving, decomposition, abstraction, critical thinking, programming, writing pseudocode, and resilience.

Students will develop knowledge and understanding of systems architecture, memory and storage, computer networks, connections and protocols, network security, systems software, algorithms, programming fundamentals, Boolean logic, programming languages, integrated development environments, and the ethical, legal, cultural and environmental impacts of these digital technologies.

Computer Science and Information Technology is special because of the opportunities for practical work, the number of contexts in which computer skills are needed, and the growing demand for experts in these subjects.

School Curriculum Intent

At WMG academy our curriculum intent is to provide a STEM focussed curriculum that prepares pupils for the world of work, we are business led; as such we provide a rigorous, expertly sequenced curriculum with engineering at the heart. Alongside the curriculum we have a nurturing pastoral support team providing enrichment and guidance, thoroughly preparing students to be career ready.

School Mission

WMG Academy aims to send students into the world with a professional attitude, an understanding of business and a mature approach to work.

Our 'business-like, business-led' ethos gives students a head start. Employers pay for apprentices to study and work, with many commanding generous starting salaries in secure industries.