

Hanley St Luke's Church of England Academy

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Computing Policy

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Subject Lead	Mrs Laura Cordon
Headteacher	Mrs Zoe Cooper
Governor/Committee (where applicable)	Mr Andrew Wragg

Our School Vision:

"I have come that they may have life and have it to the full."
(John 10:10)

Our Mission:

At Hanley St Luke's, we are rooted in love and guided by faith. We nurture every child to live life to the full. By showing *honesty, courtesy, kindness, perseverance, and respect*, we create a safe, supportive, and inclusive environment where every child can grow academically, spiritually, and emotionally.

Our school is committed to nurturing a community built on strong Christian values, where every child is encouraged to grow both personally and academically. Through honesty, we promote truthfulness

and trust; through courtesy and respect, we foster a culture of care and understanding; through kindness, we encourage compassion and forgiveness; and through perseverance, we inspire resilience and determination. Guided by these values and the teachings of Scripture, we aim to create a safe, supportive environment where all members of our school community can flourish and become thoughtful, responsible individuals.

Honesty

"You must be truthful with each other, because we are all part of the same body."

Ephesians 4:25

Courtesy

"Show proper respect to everyone, love others, honour God."

1 Peter 2:17

Kindness

"Be kind and compassionate to one another, forgiving each other, just as God forgave you."

Ephesians 4:32

Perseverance

"Let us not become tired of doing good. At the right time we will gather a harvest—if we don't give up."

Galatians 6:9

Respect

"In everything, do to others what you would want them to do to you."

Matthew 7:12

Introduction

At Hanley St Luke's CE Academy, we recognise that Computing is an essential part of modern life and a key skill for learning, communication and future employment. Technology continues to transform the way we live, work and interact with the world, and it is our responsibility to ensure that all pupils develop the knowledge, skills and understanding required to flourish in an increasingly digital society.

Our Computing curriculum is designed to inspire curiosity, creativity and confidence whilst ensuring pupils become safe, responsible and discerning users of technology. Through a broad and ambitious curriculum, pupils develop a secure understanding of Computer Science, Information Technology, Digital Literacy, Online Safety

and Artificial Intelligence. We aim to equip our children with the tools they need to become lifelong learners who can confidently navigate and contribute to a rapidly evolving technological world.

Hanley St Luke's CE Academy is proud to have achieved the **Teach Computing Curriculum Quality Framework Mark**, recognising our commitment to delivering high-quality computing education and our dedication to continuous improvement. This achievement reflects the strong curriculum, assessment practices, enrichment opportunities and leadership that underpin Computing across the school.

Intent

The National Curriculum states that:

"A high-quality computing education equips pupils to use computational thinking and creativity to understand and change the world."

At Hanley St Luke's CE Academy, our Computing curriculum enables pupils to understand how digital systems work, solve problems through computational thinking and apply technology creatively and purposefully. We believe Computing is about much more than using devices; it is about developing resilience, logical thinking, collaboration, communication and innovation.

Our curriculum aims to prepare pupils for the opportunities and challenges of future technologies. As part of the Three Spires Trust NextGen Curriculum, we place a strong emphasis on Artificial Intelligence, digital literacy and future-ready skills. Through carefully sequenced learning experiences, pupils gain the knowledge and confidence required to become responsible users, creators and evaluators of technology.

We also recognise the importance of exposing pupils to future education pathways and careers. Through enrichment activities, STEM projects and careers education, pupils gain an understanding of how Computing skills can lead to exciting opportunities within the digital, technology and artificial intelligence sectors.

Curriculum Implementation

Since May 2022, the school has followed the **Teach Computing Curriculum**, which is built around a spiral curriculum model. This approach ensures that key concepts are revisited regularly, allowing pupils to build upon prior learning and deepen their understanding over time.

The curriculum is carefully sequenced through our **Computing and AI Progression of Skills Overview**, which ensures clear progression from EYFS to Year 6 and supports the delivery of both the National Curriculum and the Three Spires Trust NextGen Curriculum. The progression document demonstrates how pupils develop knowledge, skills and understanding across Computer Science, Information Technology, Digital Literacy, Online Safety and Artificial Intelligence throughout their primary years.

The curriculum is organised through the key strands of Computing Systems and Networks, Programming, Data and Information, Creating Media, Digital Literacy and Online Safety. These areas are revisited and developed throughout the primary phase to ensure pupils leave Hanley St Luke's with a secure and comprehensive understanding of Computing.

Online Safety is a fundamental aspect of our curriculum and is woven throughout all areas of learning. Pupils are taught how to use technology safely, respectfully and responsibly through dedicated Computing lessons, PSHE, assemblies and wider safeguarding opportunities.

Artificial Intelligence and the NextGen Curriculum

As part of the Three Spires Trust NextGen Curriculum, Hanley St Luke's CE Academy has developed an ambitious approach to Artificial Intelligence education. We recognise that AI is becoming an increasingly significant part of society and that pupils need both the technical understanding and ethical awareness required to engage with it responsibly.

Currently, pupils in Years 3 to 6 participate in progressive AI Digital Literacy learning. In Year 3, pupils are introduced to the concept of Artificial Intelligence and begin to understand that AI systems use patterns to make predictions. In Year 4, pupils explore how AI systems follow programmed instructions whilst developing an awareness of privacy, fairness and responsible technology use. In Year 5, pupils investigate AI in everyday life, examine AI-powered tools and begin to understand bias, fairness and AI-generated content. By Year 6, pupils explore advanced concepts including algorithms, large language models, effective prompting, digital safety, deepfakes and the societal implications of Artificial Intelligence. [\[Computing...Curriculum | Word\]](#)

From **September 2026**, all pupils in Key Stage 2 will undertake a dedicated Artificial Intelligence unit of work as part of the Computing curriculum and NextGen Curriculum. This unit will provide opportunities to learn about machine learning, AI systems, ethical considerations and responsible AI use.

From **September 2027**, Artificial Intelligence education will be extended into Key Stage 1 through carefully planned, age-appropriate learning experiences. Children will explore how technology can recognise patterns, make decisions and support everyday life, providing firm foundations for future AI learning.

This progressive approach ensures that all pupils develop the knowledge, understanding and digital citizenship skills necessary to navigate an AI-powered future confidently and responsibly.

Early Years Foundation Stage

Technology forms an important part of learning within the Early Years Foundation Stage. Through play-based experiences and practical exploration, children are introduced to a range of digital tools and technologies.

Opportunities are provided for children to use tablets, programmable toys, interactive whiteboards and digital recording devices to support communication, creativity, problem-solving and understanding of the world.

Technology in EYFS is used to encourage curiosity, independence and confidence whilst supporting the development of communication, language and fine motor skills.

Key Stage 1

In Key Stage 1, pupils develop an understanding of algorithms, programming and digital content creation. They learn to create and debug simple programs, use technology purposefully and recognise how technology is used beyond school. Online Safety is embedded throughout all learning and pupils are taught how to stay safe online and seek help when needed.

From September 2027, pupils in Key Stage 1 will also begin learning about Artificial Intelligence through age-appropriate activities linked to the NextGen Curriculum, helping them understand the role of technology within the world around them.

Key Stage 2

In Key Stage 2, pupils build upon prior learning through increasingly sophisticated computing experiences. They learn to design, write and debug programs, understand networks and the internet, collect and analyse data, create digital content and apply computational thinking to solve problems.

Pupils also develop a deeper understanding of Artificial Intelligence through the progressive AI curriculum and the dedicated AI unit introduced from September 2026. Learning focuses not only on technical understanding but also on ethics, responsibility and critical evaluation.

Resources and Technology

Hanley St Luke's CE Academy is committed to maintaining a high-quality technological environment that supports teaching and learning across the curriculum.

Every classroom is equipped with a computer connected to the school network and an interactive whiteboard. Staff and pupils have access to a range of digital devices and specialist computing equipment, including iPads, BeeBots, Crumble Kits, Micro:bits, Data Loggers and STEM resources.

Technical support, infrastructure management and strategic digital development are provided through the **Three Spires Trust**, ensuring that technology remains secure, effective and responsive to the needs of pupils and staff. The school continually reviews and develops its digital provision so that pupils have access to modern technologies that support successful learning and future readiness.

Personal iPad Programme

From **September 2026**, every pupil in **Year 5 and Year 6** will be allocated their own personal iPad for use in school. This initiative forms part of our commitment to creating a modern learning environment that develops independent learners and supports future-focused education.

The use of iPads will enhance teaching and learning across the curriculum by providing pupils with greater access to digital resources, opportunities for collaboration, creative applications and personalised learning experiences. The programme will also strengthen preparation for secondary education and future employment by enabling pupils to develop the digital skills increasingly required in modern workplaces.

As part of this initiative, all Year 5 and Year 6 pupils will have access to **Magma Maths**, an innovative mathematics platform designed to develop fluency, reasoning and problem-solving skills. Through Magma Maths, pupils will receive immediate feedback, engage in personalised learning activities and develop greater independence and confidence in Mathematics.

All devices will remain in school and will be used within a filtered, monitored and secure environment. Use of technology will be governed by the school's Online Safety and Acceptable Use Policies.

Enrichment and Careers Education

At Hanley St Luke's CE Academy, we believe that Computing should inspire pupils and broaden their understanding of the world beyond the classroom. We therefore provide a range of enrichment opportunities designed to develop curiosity, creativity and aspiration.

Pupils participate in activities such as STEM projects, coding challenges, robotics activities, digital media creation, Artificial Intelligence workshops, technology competitions and enrichment days. These opportunities enable children to apply their learning in practical and meaningful contexts whilst developing resilience, teamwork and problem-solving skills.

Careers education is embedded throughout the Computing curriculum and directly supports our curriculum drivers. Pupils are introduced to a variety of careers including software development, cyber security, data analysis, robotics engineering, web development, artificial intelligence, digital content creation and game design. Through curriculum learning, real-world examples, visitors and enrichment opportunities, children gain an understanding of how Computing skills can lead to future educational and employment opportunities.

Our commitment to STEM and careers learning supports pupils in recognising their talents, raising aspirations and exploring the possibilities available within an increasingly technological world. This aligns closely with the Three Spires Trust NextGen Curriculum and our wider vision of preparing pupils for future success.

[\[Computing...Curriculum | Word\]](#)

Assessment

Assessment forms an integral part of teaching and learning in Computing. Teachers use a range of formative assessment strategies including observation, discussion, targeted questioning and practical activities to identify pupils' understanding and inform future planning.

Summative assessment takes place throughout units of work and is used to evaluate progress against curriculum objectives. Teachers assess pupils' ability to apply knowledge, skills and understanding independently and use assessment information to ensure appropriate support and challenge for all learners.

Pupils also use Seesaw to record and evidence learning, enabling teachers and pupils to reflect upon progress and celebrate success.

Monitoring and Evaluation

The Computing Lead is responsible for monitoring the quality of teaching and learning, supporting staff development, managing resources and ensuring effective curriculum implementation across the school.

Monitoring activities include learning walks, lesson observations, pupil voice activities, planning scrutiny, assessment reviews and evaluation of pupils' work. Particular attention is given to the implementation of Artificial Intelligence education and the development of the NextGen Curriculum.

The Computing Lead also ensures that standards associated with the Teach Computing Curriculum Quality Framework Mark are maintained and continually developed so that pupils continue to receive the highest quality Computing education.

Online Safety and Security

Online Safety is central to our Computing curriculum and wider safeguarding responsibilities. Pupils are taught how to use technology safely, respectfully and responsibly. They learn how to protect personal information, recognise risks, critically evaluate online content and seek support when necessary.

Internet access is filtered and monitored, and all technology use takes place in accordance with the school's Online Safety Policy, Acceptable Use Policy and safeguarding procedures. Parents are supported through regular communication and guidance to help promote safe technology use beyond school.

Impact

Through our Computing curriculum, pupils leave Hanley St Luke's CE Academy as confident, competent and responsible users of technology. They understand how digital systems work, can apply computational thinking to solve problems and use technology creatively and safely. They are equipped with the knowledge and skills needed for future learning and develop an informed understanding of Artificial Intelligence and its role in society.

Through our achievement of the Teach Computing Curriculum Quality Framework Mark, our implementation of the Three Spires Trust NextGen Curriculum, our progressive AI education programme, our Year 5 and Year 6 personal iPad initiative, access to Magma Maths and our extensive enrichment and careers opportunities, we ensure that pupils are fully prepared for the opportunities and challenges of an increasingly technological and AI-driven world.

Sources



Provide your feedback on BizChat

You said:

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Copilot said:

Copilot

Computing Curriculum Policy

Hanley St Luke's CE Academy

Vision

At Hanley St Luke's CE Academy, we believe that every child should be equipped with the knowledge, skills and confidence to succeed in an increasingly digital world. Guided by our Christian vision, "*I have come that they may have life and have it to the full*" (John 10:10), we provide a high-quality Computing curriculum that develops creativity, problem-solving, resilience and responsible digital citizenship.

We are proud to have achieved the **Teach Computing Curriculum Quality Framework Mark**, recognising our commitment to delivering high-quality Computing education and preparing pupils for life in a rapidly changing technological world.

Intent

Computing is an essential part of everyday life and plays a key role in preparing children for their future education and careers. At Hanley St Luke's CE Academy, we aim to provide a broad, balanced and ambitious curriculum that enables pupils to become confident, capable and responsible users of technology.

Our curriculum develops pupils' understanding of Computer Science, Information Technology, Digital Literacy and Online Safety. As part of the Three Spires Trust **NextGen Curriculum**, we also ensure that pupils develop an understanding of Artificial Intelligence (AI) and the role it plays in society.

We want our pupils to leave Hanley St Luke's as confident digital citizens who can use technology safely, creatively and responsibly.

Curriculum Implementation

Since May 2022, the school has followed the **Teach Computing Curriculum**, which provides clear progression from EYFS to Year 6. The curriculum is based on a spiral approach, meaning pupils revisit and build upon key concepts throughout their time in school.

The curriculum is supported by our **Computing and AI Progression of Skills Overview**, which ensures that knowledge and skills are carefully sequenced across all year groups.

Computing lessons cover:

- Computer Science
- Information Technology
- Digital Literacy
- Online Safety
- Artificial Intelligence

Online Safety is taught throughout the curriculum and reinforced through PSHE, assemblies and safeguarding procedures.

Artificial Intelligence and the NextGen Curriculum

As part of the Three Spires Trust NextGen Curriculum, pupils begin to learn about Artificial Intelligence through our progressive Computing curriculum. Children in Years 3 to 6 already develop AI Digital Literacy skills and explore how AI is used in everyday life. [\[Computing...Curriculum | Word\]](#)

From **September 2026**, all pupils in **Key Stage 2** will take part in a dedicated AI unit of work as part of the Computing curriculum.

From **September 2027**, all pupils in **Key Stage 1** will begin learning about AI through age-appropriate activities that help them understand how technology can help people, recognise patterns and make decisions.

Through this progressive approach, pupils develop an understanding of AI, digital responsibility and the ethical issues surrounding emerging technologies. [\[Computing...Curriculum | Word\]](#)

Early Years Foundation Stage

In EYFS, Computing is taught through play and exploration. Children have opportunities to use tablets, programmable toys, interactive whiteboards and digital devices to support communication, creativity and problem-solving.

Technology is used to help children develop curiosity, independence and confidence while exploring the world around them.

Resources and Technology

The school is committed to providing high-quality technology to support learning across the curriculum.

Every classroom is equipped with a computer connected to the school network and an interactive whiteboard.

Pupils have access to iPads and specialist Computing equipment including BeeBots, Crumble Kits, Micro:bits, Data Loggers and a range of STEM resources.

Technical support, network management and digital infrastructure are provided through the **Three Spires Trust**, ensuring that technology is reliable, secure and effective in supporting teaching and learning.

Personal iPad Programme

From **September 2026**, all pupils in **Year 5 and Year 6** will have their own personal iPad for use in school.

The iPad programme will support independent learning, creativity, collaboration and digital skills development across the curriculum. It will also help prepare pupils for secondary school and the modern workplace.

Year 5 and Year 6 pupils will also have access to **Magma Maths**, an innovative platform that supports mathematical fluency, reasoning and problem-solving. Through Magma Maths, pupils will receive immediate feedback and personalised learning opportunities to further enhance their achievement in mathematics.

All devices will remain in school and will be used within a secure and monitored environment.

Enrichment and Careers

At Hanley St Luke's CE Academy, we believe that Computing extends beyond the classroom. We provide a range of enrichment opportunities that allow pupils to explore technology in exciting and meaningful ways.

These opportunities may include coding projects, STEM activities, robotics challenges, Artificial Intelligence workshops, competitions, educational visits and themed technology days.

Careers education is embedded within the Computing curriculum. Pupils learn about careers linked to technology and digital innovation, including software development, cyber security, robotics, engineering, data analysis, artificial intelligence and digital media.

These experiences help pupils understand how the skills they learn in school can lead to future education, training and employment opportunities.

Assessment

Assessment is an important part of teaching and learning in Computing. Teachers use questioning, observations, discussions and practical activities to assess pupils' understanding and inform future planning.

Pupils are given opportunities to reflect on their learning and identify next steps. Evidence of learning is often recorded through practical outcomes and digital platforms such as Seesaw.

Monitoring

The Computing Lead is responsible for monitoring the quality of teaching and learning, supporting staff, managing resources and ensuring that the curriculum is delivered effectively.

Monitoring activities include lesson visits, work scrutiny, pupil voice, planning reviews and assessment analysis. Particular attention is given to the delivery of Artificial Intelligence education and the continued development of the NextGen Curriculum.

Online Safety

Online Safety is an integral part of Computing and safeguarding at Hanley St Luke's CE Academy.

Pupils are taught how to use technology safely, respectfully and responsibly. They learn how to protect personal information, recognise online risks and report concerns when necessary.

All internet access is filtered and monitored, and the school follows its Online Safety and Acceptable Use Policies to ensure a safe digital environment for all pupils.

Impact

By the time pupils leave Hanley St Luke's CE Academy, they will be confident, capable and responsible users of technology. They will have developed the skills, knowledge and understanding needed to succeed in an increasingly digital and AI-driven world.

Through our Teach Computing Quality Framework accreditation, our NextGen Curriculum, our AI provision, personal iPad programme, access to Magma Maths and a wide range of enrichment and careers opportunities, we ensure that every pupil is well prepared for the future.