LCA Subject on a Page

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Secondary Computing

What will you see in Computing lessons?

Pupils developing computing skills.

Learning formatting, formulae, charts and predictions when using spreadsheets.

Developing a greater understanding of how to safely use the digital world and our digital footprint.

Using new software such as Blender to create digital images/ animations. Pupils working in groups to develop their knowledge and understanding of cyber security and understanding binary as a number sequence and how that relates to computers.

What assessment (formative and summative) methods do we use in Computing?

Microsoft One note is used to provide recorded verbal feedback and written feedback to live documents. Pupils receive RAG rated comments to show how they are progressing against assessment frameworks that are linked to the national curriculum at KS3 and Assessment criteria at KS4 and 5. Exam style questions are used more frequently to develop exam technique. The use of Seneca to assess pupils through revision and quizzes.

What are the common misconceptions that pupils have and make in Computing that we need to address?

Pupils often believe that computing is only relevant if they're aiming for a career in technology. Computing skills are becoming increasingly essential across all industry sectors, from healthcare to finance, education, and more. Teachers counter this misconception by showing students the broad range of careers where computing skills are vital. They can highlight real-world examples of computing applications in different industries.

Information from the last 12 months in Computing reveals particular strengths in…..

- Learners are supported, challenged and understand how the curriculum is inter-connected.
- Computational thinking is the core ability to all problem solving across all subjects.
- Formulae, charts and binary links to maths and science.
- HTML and digital images link to art, photography and graphic design.
- Coding has links to languages.

What will you see in pupils' Computing digital books?

Engagement in a range of topics including internal components of a computer, how a processor works, memory and storage, wired and wireless networks, network layouts and rules of operation binary and representing digital text, images and sound, ethics, morals and legislation. Pupils will use a variety of programming languages, from Kodu, Scratch, web languages (HTML\CSS) to Python. Plenty of exam questions for students to practice.

Information from the last 12 months in Computing reveals a particular focus should be on…..

- The application of computing in real life settings and how to integrate new and emerging technologies into the curriculum offer at Liverpool College.
- Introducing additional projects linked to Design and Technology to develop pupils' knowledge and understanding of programmable microcontrollers.

What will you see in Computing at Liverpool College that extends beyond the National Curriculum and / or exam specifications?

KS3 is taught as a real mix of all three threads in broad topic areas in Chapters 7, 8 and 9, but stretching further each year. KS4 builds on this foundation, extending topics towards A-Level/BTEC, while supporting and developing students across the ability range.

Parents can help their children in their Computing studies by….

We aim to create safe, confident and knowledgeable students with a love of computing and a greater understanding of the digital world they are surrounded by. Parents can support this by educating their child about online safety from an early age. Encourage them to be curious in their use of applications/ new software.