SCHS Computing/CS Learning Journey

No matter what you progress onto-
The skills you learn will prepare you for the future



Progression to next stage of learning:
A Level in Computer Science.
Any academic or vocational course that requires an understanding of technology.

You'll cover...security, ethical, legal and environmental issues to do with computers. SQL databases.

SQL **LSEE issues** **Cyber security**

Building a future through practical skills

- **Computational thinking**
- **Programming**

You'll cover...how computer systems use a combination of hardware and software to process and store data and instructions.

Computer Systems

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Computer Networks **Algorithms**

GCSE Python Programming

You'll cover...how computers represent data, how computer networks work, how computers sort and search for data and how to create a range of programs in Python.

9e-Topic 18: Summer 2
***You'll* cover**...*computing skills to support chosen options in preparation for KS4. Be Ready!*

17e-Topic 17: Summer 1
***You'll* cover**.. *professional image editing software creating and editing vector and raster images. Industry Recognised!*

Data representation **10** **18 Transition Project** **17 Adobe Photoshop Illustrator**

17-Topic Skills… working with layers, selections, masks, filters, resolution, file formats

9A-Topic 13: Autumn 1
***You'll* cover**...*creating a virtual band and developing a range of publicity material to promote their debut album and tour. Band manager!*

9b-Topic 14: Autumn 2
***You'll* cover**... *a stadium plan and a financial model. Also plan and develop a website using the prior content created Get the show on the road!*

9c-Topic 15: Spring 1
***You'll* cover**...*cybercrime and the security measures that can minimise risk. Don't become a victim!*

9d-Topic 16: Spring 2
***You'll* cover**... *textual programming and an understanding of computer science. Test and fix!*

13 Band Graphics Project **14 Band Website Stage Plan** **15 Cyber Security** **16 Computer Science**

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13-Topic Skills...
Creativity
Independency
Application
Repurposing
Editing

14-Topic Skills...Data Handling
Wireframes, House style

15-Topic Skills…
Scam, Protecting Data, Misuse, Copyright, Safety

16-Topic Skills.. Binary, Encryption, Networks, Python and Python Turtle

12-Topic Skills…
Mind Maps
Scripts
Storyboards
Moodboards
Comic elements
Storylines
Characters

8e-Topic 11: Summer 1
***You'll* cover**... *how computers work including binary. Easy as 1+1=10 !*

8d-Topic 10: Spring 2
***You'll* cover**... *block building code to create a game using more advanced features. Go!*

8c-Topic 9: Spring 1
***You'll* cover**... *how to use technology in a positive way and how to report any concerns. Stay safe !*

12 Creating Comics **11 Understanding Computers** **10 Advanced Coding in Scratch** **9 Responsible Internet Use**

8f-Topic 12: Summer 2
***You'll* cover**... *planning and creating a comic strip for a given scanario (Cybersafety). WOW !*

11-Topic Skills… Elements, Input, Output, Storage, Tropologies, Binary

10-Topic Skills... Lives, Levels, Operators, Variables, Code

8-Topic Skills..
Navigation,
themes,
interactive
components

7e-Topic 5: Summer 1
***You'll* cover**... *flowcharts to create a variety of control systems using computational thinking to solve a problem. Get thinking !*

6-Topic Skills.. Promotion, forms, photography, research, Audience

8a-Topic 7: Autumn 1
***You'll* cover**...*creating a fully functioning quiz on a spreadsheet Quiz master !*

6 Sports Day Project **8** **7 Creating Quizzes Spreadsheets** **8 Web Development**

8b-Topic 8: Autumn 2
***You'll* cover**... *planning & developing a website. Professional !*

5-Topic Skills..
Flowcharts
Problem solving
Real world solutions
Control systems

7f-Topic 6: Summer 2
***You'll* cover**...*a range of application to effectively present information for a given audience. Skills!*

7-Topic Skills.. If/countif formula, Conditional formatting,

3-Topic Skills.. Social media
Email, web searches, security

2-Topic Skills.. Game environments
Control, scoring systems, enemies, levels

7a-Topic 1: Autumn 1
***You'll* cover**... *to use all of the school systems. Get started !*

4-Topic Skills..
Formatting cells
Using Formula
Longer formulas
Functions
Charts and Models

4. Data Handling **3. Using Computers Safely Responsibility Effectively** **2 Coding in Kodu** **1a.Understanding school systems 1b Creating an IMP** **7**

7d-Topic 4: Spring 2
***You'll* cover**... *how to use the different functions and formulas within a spreadsheet to handle and represent data. Really useful skill for the future !*

7c-Topic 3: Spring 1
***You'll* cover**... *how to use technology safely, responsibly and effectively. Learn !*

7a-Topic 2: Autumn 2
***You'll* cover**... *tile based coding (when and do) to develop games using some advanced features within Kodu. Have Fun !*

7b-Topic 1: Autumn 1
***You'll* cover**... *creating an IMP about yourself using a range of interactivity in a linked presentation. Be creative !*