

Computing Science

S3/4 COMPUTING SCIENCE

Pupils study Computing Science for 3 periods each week in S3 and 4 periods in S4. During these periods pupils will develop their skills through a variety of topics. Some of which include:-

- **Software Design & Development**
- **Web Design & Development**
- **Database Design & Development**
- **Computer Systems**
- **Security Precautions**
- **Environmental Impact**

GLOW

Your child has a school GLOW account, this provides them with access to their e-mail account, Office 365 and their One Drive.



Pupils can upload work completed in class to their OneDrive to look over or complete at home.

Your child will join a class GLOW group, their teachers will post learning materials and homework here for pupils to access.



GLOW also allows pupils to download Microsoft Office to their personal devices for free. Details of this can be found on the departmental pages of the school website.

LOGIN DETAILS

Pupils are given their login details in S1. If your child forgets their details then they can request them from their class teacher or by completing the form on the school website.

TEACH ICT

The department has a subscription to the TEACH ICT website. This contains a huge range of resources for Computing Science that can be used to practice/develop skills or for revision.

<http://www.teach-ict.com>

Username: PA27LG

Password: (request from your teacher)



USEFUL WEBSITES

BBC Bitesize	https://www.bbc.co.uk/bitesize
Codecademy	https://www.codecademy.com/
W3schools	https://www.w3schools.com/html/
SQLTeaching	https://www.sqlteaching.com/

FREE SOFTWARE

The software below is used in school as part of the course, it can be downloaded at home for free to allow pupils to consolidate or further develop their skills.

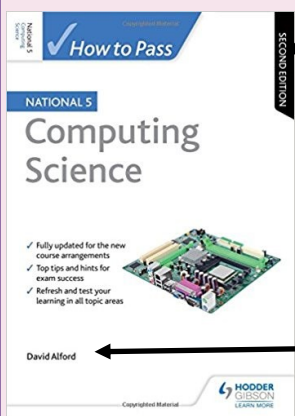
- **Visual basic**
- **Notepad++**
- **Scratch**

SCHOOL WEBSITE

Further information on how to support your child's learning for Computing Science can be found on the school website.

<http://www.standrewspaisley.com/national-45-computing-science.html>

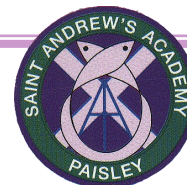
Second Edition



TEXTBOOKS

There are a number of Computing Science textbooks that are useful for the course, however this is the most recently published text and contains the most up to date content.

David Alford



Computing Science

• Software Design & Development

- **Develop your Visual Basic programming skills at home.**
- This is free software that pupils can download and install on to their own devices.
- Follow the link and choose the '**Community 2019**' option.
- <https://visualstudio.microsoft.com/vs/features/net-development/>

• Web Design & Development

- **Develop your web design / html skills at home.**
- Notepad is a simple text editor that comes as standard with most computers.
- This is free software that can be used to write html code to build web pages.
- Alternatively there are lots of great HTML tutorials on the web.
- <https://www.w3schools.com/html/>
- https://www.w3schools.com/howto/howto_website.asp
- <https://www.codecademy.com/learn/make-a-website>

• Database Design & Development

- **Develop your database and SQL skills at home.**
- Use your Glow account to download Microsoft Access
- Practice creating tables and linking them together.
- Practice using SQL to edit, update and search on databases.
- <https://www.w3schools.com/sql/>
- <http://www.sqlcourse.com/intro.html>
- <https://sqlbolt.com/>

• Computer Systems

- **Develop your knowledge of computer systems at home and all the theory for the above topics using these websites.**
- <https://www.bbc.co.uk/bitesize/topics/z3kn7p3>
- https://www.teach-ict.com/2016/GCSE_Computing/SQA_Nat45/sqa_nat45_home.html
- <https://teachcomputerscience.com/national-5/>
- <https://www.senecalearning.com/>
- <https://www.brightredbooks.net/subjects/>
- <http://revision.room1.online/>
- Note! These resources are available for free, however some may require you to register to access the full features.

