



Year 7

CHRIST CHURCH

Church of England Secondary Academy

Why we think this is important for you: Computing is a practical subject where students can apply the academic principles learned in the classroom to real-world systems. It's an creative subject that combines invention and excitement and can look at the natural world through a digital prism.

What are the big ideas and concepts I will cover this year?

- Learning how to stay safe online by understanding the digital footprint, differences between private / personal information and working respectfully online
- To learn the key concepts in programming (sequence, selection and iteration)
- To understand how a computer system works
- To gain the capacity to think creatively, innovatively, analytically, logically and critically

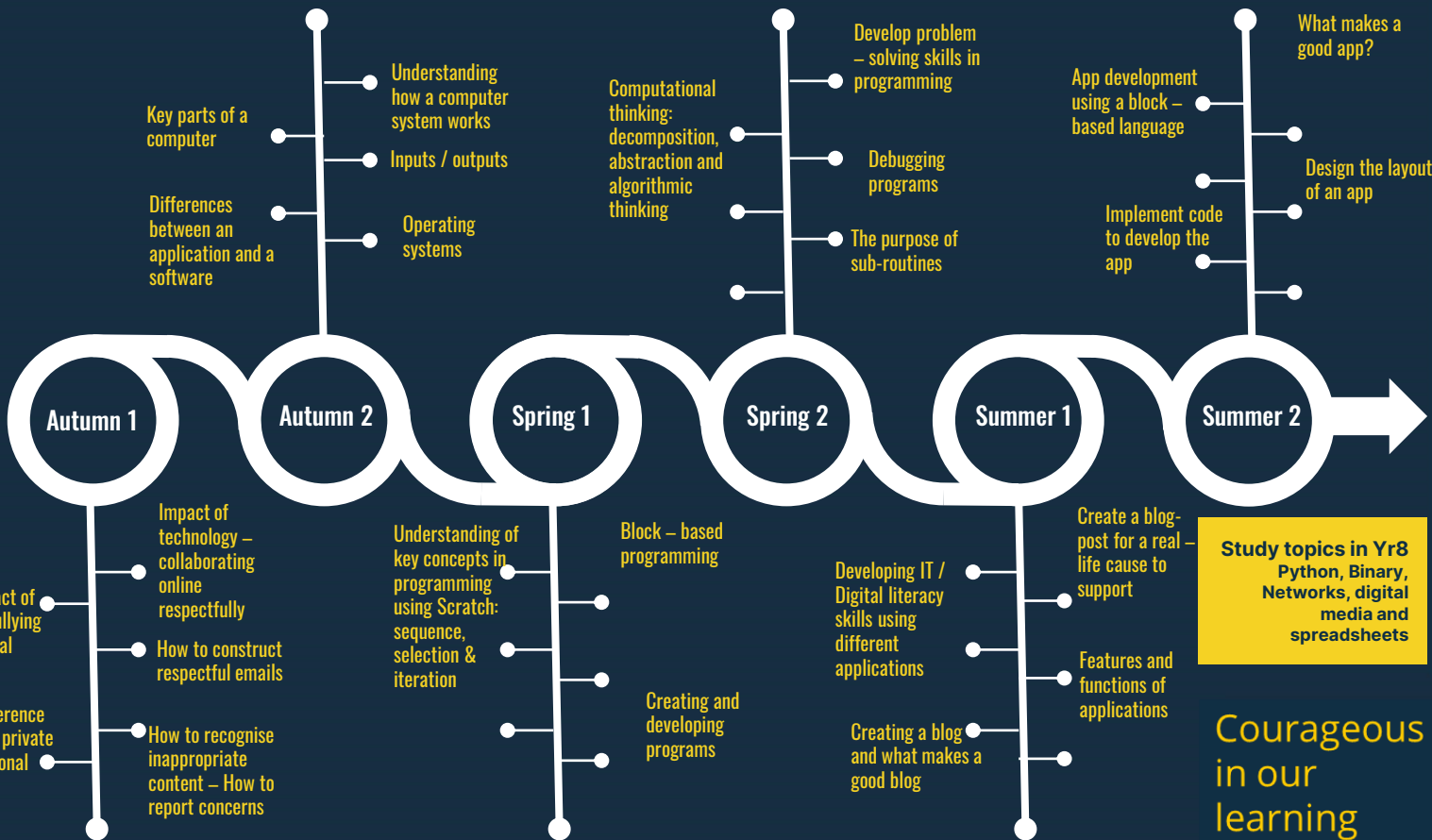
What am I learning about in SUBJECT this year?

How can I explore this subject and topic more?

- Explore programming websites online
- News – how is computing developing around the world

Careers links:

IT services, app / software development, programme, computer scientist or cyber-security.



Study topics in Yr8
Python, Binary, Networks, digital media and spreadsheets

Courageous
in our
learning



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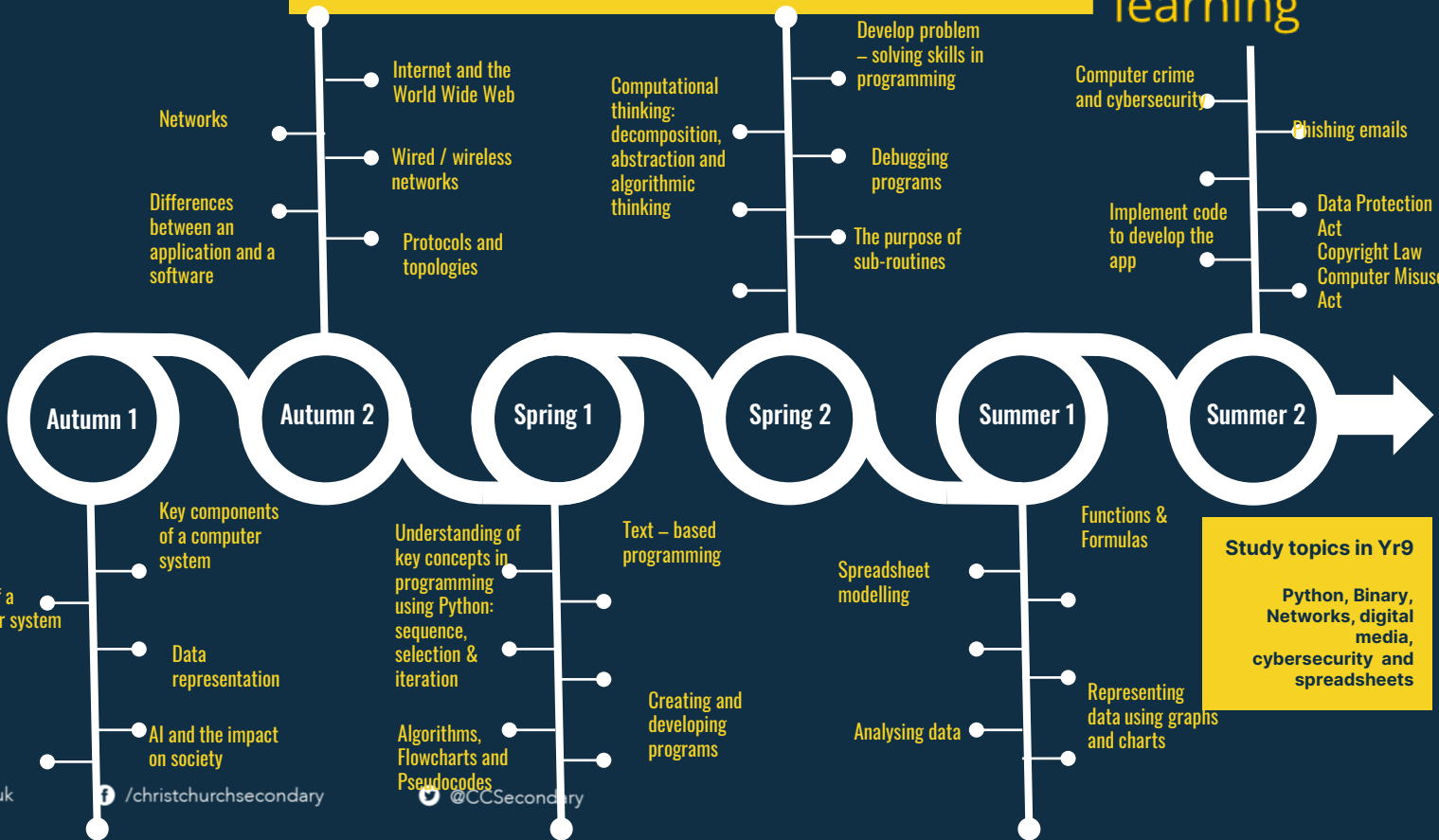
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Year 9



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What are the big ideas and concepts I will cover this year?

- Learning key fundamentals of programming and flourishing with your computational thinking skills
- To learn the key concepts in programming (sequence, selection and iteration)
- To understand cybersecurity and the methods used by cyber criminals
- To gain the capacity to think creatively, innovatively, analytically, logically and critically

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How can I explore this subject and topic more?

- Explore programming websites online
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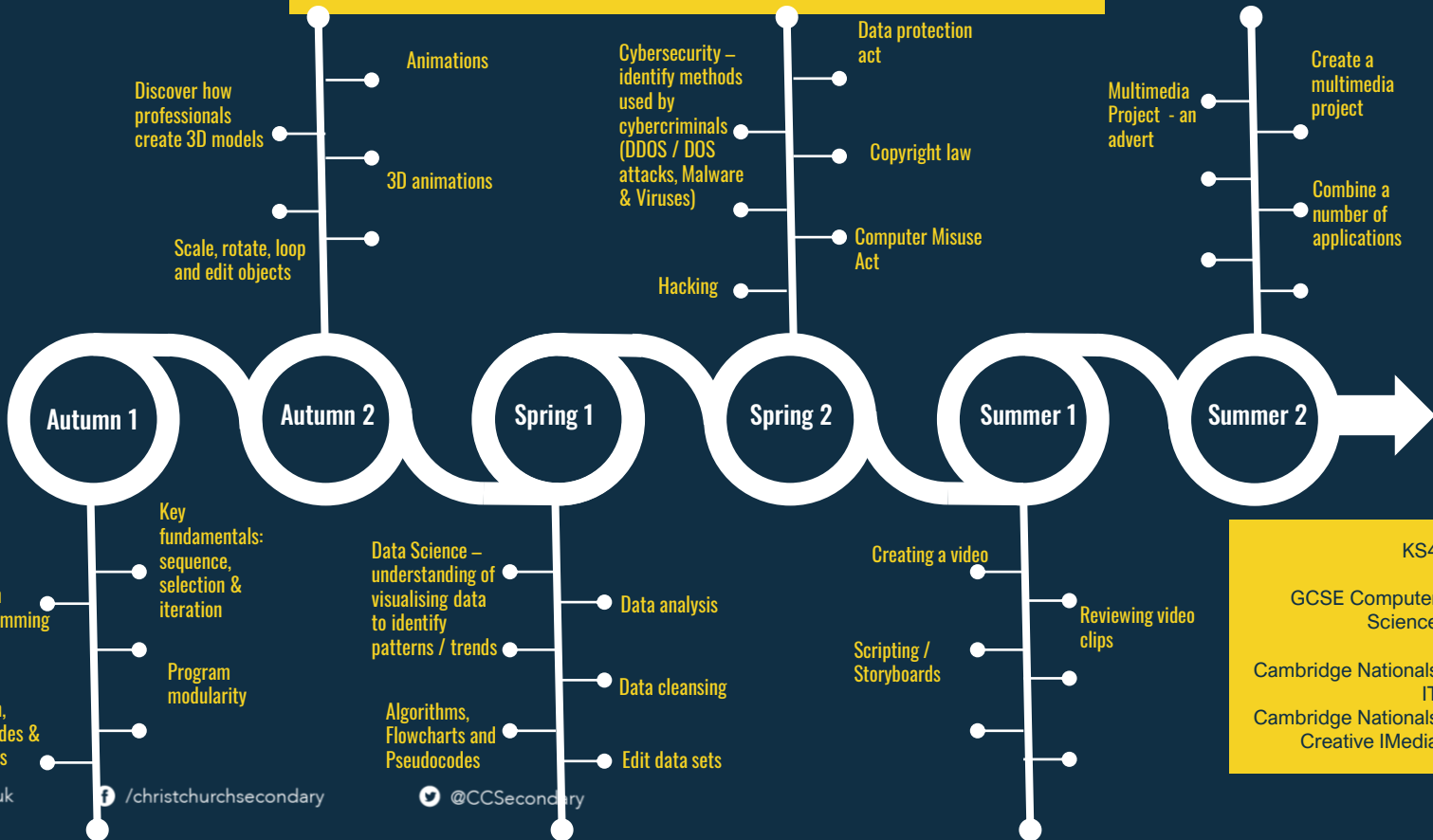
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Discover how professionals create 3D models

Scale, rotate, loop and edit objects

Animations

3D animations

Cybersecurity – identify methods used by cybercriminals (DDOS / DOS attacks, Malware & Viruses)

Hacking

Data protection act

Copyright law

Computer Misuse Act

Multimedia Project - an advert

Create a multimedia project

Combine a number of applications

Key fundamentals: sequence, selection & iteration

Program modularity

Data Science – understanding of visualising data to identify patterns / trends

Algorithms, Flowcharts and Pseudocodes

Data analysis

Data cleansing

Edit data sets

Creating a video

Scripting / Storyboards

Reviewing video clips

KS4

GCSE Computer Science

Cambridge Nationals
IT
Cambridge Nationals
Creative IMedia