

Rainford High School

Year 6 into Year 7



Computer Science

Welcome to Rainford High School and welcome to the Computer Science Department!

We are looking forward to seeing you in September and have put this pack together for you to work through over the summer to help you prepare your move into Year 7.

Skills learnt from Computer Science:

- > Digital Literacy Skills
- > Problem-Solving Skills
- > Creativity
- > Critical-Thinking skills
- > Resilience
- > Teamwork

Careers (Jobs) with Computer Science:

- > Computer Games Developer
- > Mobile App Developer
- > Website Developer
- > IT Consultant
- > Cyber Security Expert
- > Database Administrator

Draw lines to the correct parts of the computer and try to find out what they do!

Section Co. 1	

Graphics Card

CDII



Hard drive

Motherboard

Power Supply

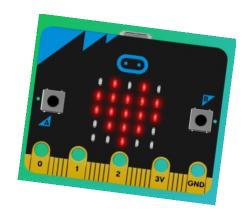
RAM

Some great links you might want to have a look at and try some of the challenges!!!

www.microbit.org

Learn how to program and create code that will physically control a microbit computer.

Create different patterns operated by buttons when clicked and even try to create a game.





www.code.org

Watch videos of how coding is used in jobs and the world, learn how games are developed and programmed and try to complete all of the challenges to fully complete each game.

www.idea.org.uk

Sign up and work your way through a variety of different challenges to gain as many badges as you can and learn a huge range of different digital skills.



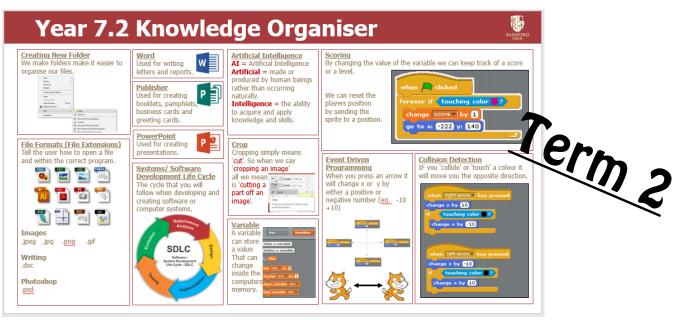


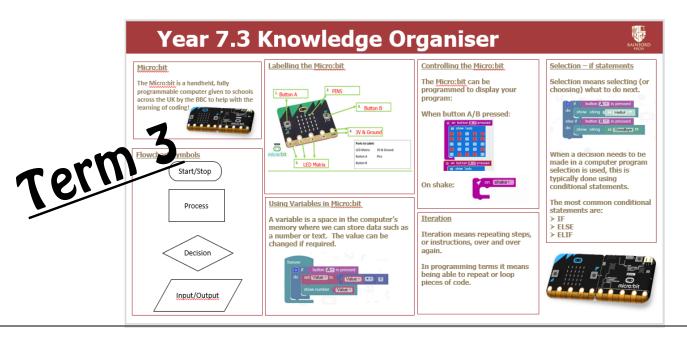
https://www.bbc.co.uk/bitesize/subjects/zvc9q6f

View videos and information from what you will learn over the next few years.

This is a collection of our Year 7 Knowledge Organisers – what we will be covering in Year 7













Fun Facts

- 1. The first electronic computer ENIAC weighed more than 27 tons and took up 1800 square feet.
- 2. TYPEWRITER is the longest word that you can write using the letters only on one row of the keyboard of your computer.
- 3. Doug Engelbart invented the first computer mouse in around
- 4. There are more than 5000 new computer viruses released
- 5. If there was a computer as powerful as the human brain, it would be able to do 38 thousand trillion operations per second and hold more than 3580 terabytes of memory.
- 6. The password for the computer controls of nuclear tipped missiles of the U.S was 00000000 for eight years.
- 7. HP, Microsoft and Apple have one very interesting thing in common - they were all started in a garage.
- 8. The first 1GB hard disk drive was announced in 1980 which weighed about 550 pounds, and had a price tag of \$40, 000.
- 9. The original name of windows was Interface Manager.
- 10. The first microprocessor created by Intel was the 4004. It was designed for a calculator, and in that time nobody imagined where it would lead

Questions to find answers to:

When was the first computer created?

Who is the founder of the Windows Operating System?

Why is a common keyboard referred to as a QWERTY keyboard?

What is an Input and Output Device? (List as many as you can)

What is the difference between the Internet and the Web?

What is binary?

What do different parts of the computer do?

What is a network?

Find as many different programming languages as possible.

Who was the founder of Apple computers?

