

## Year 11 – ICT

Should you decide to study ICT as a subject next year, these resources should help further develop your interests as well as preparing you for 'A' Level study and beyond.

The resources include a selection of videos, reading and websites you may find useful in your preparation. One of the best ways to stand out during your Sixth Form studies is through the amount of independent study you undertake outside of the classroom. Further study increases your passion in an area of interest, regardless of your future plans, the ability to extend yourself and research independently is an invaluable skill.

### Suggested websites:

1. **Learn office 365:** <https://docs.microsoft.com/en-gb/learn/>
2. **Learn Adobe Sparks:** <https://spark.adobe.com/>
3. **Learn Python:** <https://www.learnpython.org/>
4. **Create a blog:** <https://www.wix.com/>
5. **W3 Schools- Web design tutorial:** <https://www.w3schools.com/>

### Ted Talks recommendations:

1. **Who's watching us? (10 talks) Curated by TED · 10 talks**



[http://www.ted.com/playlists/who\\_s\\_watching\\_us](http://www.ted.com/playlists/who_s_watching_us)

In the age of smart tech, privacy is a definite concern. Here's the download on who has your information and what they're doing with it.

2. **[Brian Christian: How to manage your time more effectively \(according to machines\)](https://www.ted.com/talks/brian_christian_how_to_manage_your_time_more_effectively_according_to_machines)**



Human beings and computers alike share the challenge of how to get as much done as possible in a limited time. Over the last fifty or so years, computer scientists have learned a lot of good strategies for managing time effectively— and they have a lot of experience with what can go wrong.

[https://www.ted.com/talks/brian\\_christian\\_how\\_to\\_manage\\_your\\_time\\_more\\_effectively\\_according\\_to\\_machines](https://www.ted.com/talks/brian_christian_how_to_manage_your_time_more_effectively_according_to_machines)

3. **Paul Debevec: Animating a photo-real digital face**



Computer graphics trailblazer Paul Debevec explains the scene-stealing technology behind Digital Emily, a digitally constructed human face so realistic it stands up to multiple takes.

[https://www.ted.com/talks/paul\\_debevec\\_animating\\_a\\_photo\\_real\\_digital\\_face](https://www.ted.com/talks/paul_debevec_animating_a_photo_real_digital_face)

4. **[Tim Berners-Lee | TED Speaker](https://www.ted.com/speakers/tim_berners_lee)**



Tim Berners-Lee invented the World Wide Web. He leads the World Wide Web Consortium (W3C), overseeing the Web's standards and development.

Inventor

[https://www.ted.com/speakers/tim\\_berners\\_lee](https://www.ted.com/speakers/tim_berners_lee)

## 5. [Kenneth Cukier: Big data is better data](https://www.ted.com/talks/kenneth_cukier_big_data_is_better_data)



Self-driving cars were just the start. What's the future of big data-driven technology and design? In a thrilling science talk, Kenneth Cukier looks at what's next for machine learning -- and human knowledge.

[https://www.ted.com/talks/kenneth\\_cukier\\_big\\_data\\_is\\_better\\_data](https://www.ted.com/talks/kenneth_cukier_big_data_is_better_data)

**Suggested reading (some available of Amazon with the free App):**



- 1. In the Plex: How Google Thinks, Works, and Shapes Our Lives by Steven Levy**  
This is the inside story behind Google, the most successful and most admired technology company of our time, told by one of our best technology writers.
- 2. Mastering Bitcoin: Unlocking Digital Cryptocurrencies**  
Want to join the technological revolution that's taking the world of finance by storm? Mastering Bitcoin is your guide through the seemingly complex world of bitcoin, providing the requisite knowledge to help you participate in the internet of money. Whether you're building the next killer app, investing in a start-up, or simply curious about the technology, this practical book is essential reading.
- 3. Hackers: Heroes of the Computer Revolution by Steven Levy**  
Well, hacking is always associated with lots of negative connotation. The good news is that this book is not about the negative message about hackers. Instead, it is about people who have done great things in the world of computing.
- 4. How Google Works by Eric Schmidt, Jonathan Rosenberg**  
How Google Works is the sum of those experiences distilled into a fun, easy-to-read primer on corporate culture, strategy, talent, decision-making, communication, innovation, and dealing with disruption.
- 5. Sketching User Experiences: Getting the Design Right and the Right Design by Bill Buxton**  
This book will teach you how to communicate effectively to partners and other stakeholders. Whether it is coming up with the right designs of a product or building prototypes, the book will give you all that you need. The information will help you to survive in an agile software development team. Each topic is accompanied by practical examples.