



# End of Year Exams: Revision Guidance

<b>Circulation</b>	Year 8 Students
<b>Title</b>	Yr8 End of Year Exam Revision
<b>Purpose</b>	To provide revision information for End of Year Exams

## Year 8

Your end of year exam will cover all the topics covered this year shown in the list below. Additional revision resources and tasks can be found on your class charts homework and on your MS Teams notebook (keyword section)

### REVISION LIST

- **Data Representation**
  - Units of Measurement (Bit, Byte, Kilobyte, Megabyte, Gigabyte, Terabyte)
  - Converting Binary to Denary <https://www.youtube.com/watch?v=q7nZbAUTSC4>
  - Converting Denary to Binary <https://www.youtube.com/watch?v=70IM1qAD5u4>
  - Binary Addition <https://www.khanacademy.org/math/algebra-home/alg-intro-to-algebra/algebra-alternate-number-bases/v/binary-addition>
  - Converting Hexadecimal to Denary [Converting Hexadecimal to Denary - YouTube](#)
  - Converting Hexadecimal to Binary [Converting Hexadecimal to Binary - YouTube](#)
  - Converting Binary to Hexadecimal [Converting Hexadecimal to Binary - YouTube](#)
- **Hardware**
  - Understanding and recognizing the difference between hardware and software
- **Algorithms**
  - Sequence - [Sequence - Programming constructs](#)
  - Selection - [Selection - Programming constructs](#)
  - Count controlled iteration - [Count-controlled iteration](#)
  - Condition controlled iteration - [Condition-controlled iteration](#)
  - Creating algorithms/programs to solve problems.
  - Tracing algorithms/programs
- **Introduction to Cyber Security**
  - Data and Information
  - The Law and Ethics – Data Protection Act, data privacy issues and how personal data is protected
  - Cybersecurity – Hacking, Malware, DDoS attacks
  - Preventing Human Errors

#### Cyber Security Revision Resources

- Data and Information: : <https://www.bbc.co.uk/bitesize/guides/zphqgdm/revision/2> ]
- BBC Bitesize - The Law and Ethics – Data Protection Act: <https://www.bbc.co.uk/bitesize/guides/z9nk87h/revision/4> ]
- Cybersecurity, Hacking, and Malware: <https://www.ncsc.gov.uk/section/information-for/individuals-families> ]

- Cyber Aware (Government Campaign): <https://www.ncsc.gov.uk/cyberaware/home> ]
- Types of Malware: <https://www.kaspersky.com/resource-center/threats/malware-101> ]
- DDoS Attacks: Link: [BBC Bitesize: DDoS Explained  
<https://www.bbc.co.uk/bitesize/guides/z9fbr82/revision/3>  
<https://www.bbc.co.uk/news/av/technology-35731734> ]
- BBC Bitesize - Computer Misuse Act:  
<https://www.bbc.co.uk/bitesize/guides/z9fbr82/revision/1>  
<https://www.bbc.co.uk/bitesize/guides/z9nk87h/revision/2> ]
- Human Error and Security Measures: <https://us.norton.com/internetsecurity-emerging-threats-human-error-the-weakest-link-in-cybersecurity.html> ]
- BBC Bitesize - Network Security: <https://www.bbc.co.uk/bitesize/guides/zrtrd2p/revision/1> ]
- <https://www.bbc.co.uk/bitesize/guides/znnny4j/revision/1> ]
- Encryption

<https://www.bbc.co.uk/bitesize/guides/zphqgdm/revision/2>

<https://www.bbc.co.uk/bitesize/guides/z9nk87h/revision/4>

<https://www.ncsc.gov.uk/section/information-for/individuals-families>

<https://www.ncsc.gov.uk/cyberaware/home>

<https://www.kaspersky.com/resource-center/threats/malware-101>

<https://www.bbc.co.uk/bitesize/guides/z9fbr82/revision/3>

<https://www.bbc.co.uk/bitesize/guides/z9fbr82/revision/1>

<https://www.bbc.co.uk/bitesize/guides/z9nk87h/revision/2>

<https://www.bbc.co.uk/bitesize/guides/zrtrd2p/revision/1>

<https://www.bbc.co.uk/bitesize/guides/znnny4j/revision/1>

<https://www.bbc.co.uk/bitesize/articles/zjhg47h>

<https://arcticwolf.com/resources/blog/why-bots-threaten-cybersecurity/>

The exam will be 45 mins long.