



End of Year Exams: Revision Guidance

Circulation	Year 7 Students
Title	Yr7 End of Year Exam Revision
Purpose	To provide revision information for End of Year Exams

Year 7,

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

- **Understanding and recognizing devices** within computer systems:
 - Input Devices (definitions and examples)
 - Output Devices (definitions and examples)

Links: [What are input and output devices? - BBC Bitesize](#)

- **Data Representation:** Be able to carry out the following conversions/calculations:
 - - Binary to Denary Conversions
 - - Denary to Binary Conversions
 - - Binary Addition

Links:

 - Binary to Denary: <https://www.youtube.com/watch?v=q7nZbAUTSC4>
 - 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>

- **Programming constructs** [The three basic programming constructs](#)
 - Sequence - [Sequence - Programming constructs](#)
 - Selection - [Selection - Programming constructs](#)
 - Count controlled iteration - [Count-controlled iteration](#)
 - Condition controlled iteration - [Condition-controlled iteration](#)

- **Creating and understanding algorithms** – understanding the following graphical programming commands:
 - **Movement** - [Movement - Scratch Wiki](#) - Point in direction, Go To, Repeat, Move, Turn,

- **Data Structures** – Variables, Lists. [Scratch: Variables and Lists](#)
- **Pen Commands** – Pendown, Penup - [Pen - Scratch Wiki](#)
- **Iteration** - [Count Controlled iteration](#), [Condition Controlled Iteration](#)
- **Subroutines (create your own blocks)** - [My Blocks - Scratch Wiki](#)

- **Units of Measurement** (Bit, Byte, Kilobyte, Megabyte, Gigabyte, Terabyte)
 - Ranking in order of size
 - Converting between different units e.g. KB -> bits

Links: [Units of storage](#)

Additional Revision Resources:

- Teams Notebook – Keyword notebook and Task Notebook

The exam will be 45 mins long.