



**KING EDWARD VI  
SHELDON HEATH  
ACADEMY**

# Year 7 Revision guides

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# Year 7 Maths

**Exam paper information:** 2 papers, 1 hour each paper • **Paper 1** Non-Calculator • **Paper 2** Calculator

SET 1 PAPER 1	
A1	Ordering decimals
A1	Function machines
A2	Angles on a Line and at a Point
A3	Factors, Multiples and Primes
A3	Expanding Brackets
A3	Reflections
A4	Simplifying Fractions
A4	Sharing using Ratio
A6	BODMAS/BIDMAS
A6	Straight Line Graphs
A7	Adding and Subtracting Fractions
A7	Using Ratio for Recipe Questions

SET 2 PAPER 1	
A1	Ordering decimals
A1	Function machines
A2	Angles on a Line and at a Point
A3	Factors, Multiples and Primes
A3	Expanding Brackets
A3	Reflections
A4	Simplifying Fractions
A4	Sharing using Ratio
A6	BODMAS/BIDMAS
A6	Straight Line Graphs
A7	Adding and Subtracting Fractions
A7	Using Ratio for Recipe Questions

SET 3 PAPER 1	
A1	Ordering Decimals
A1	Generating a Sequence (grade 2)
A1	Pictograms
A2	Negatives in Real Life
A2	BODMAS/BIDMAS
A2	Properties of 3D Shapes
A3	Multiplying Integers
A3	Dividing Integers
A3	Listing Outcomes
A4	Percentage of an Amount (Non-Calc.)
A5	Factors, Multiples and Primes
A5	Angles on a Line and at a Point
A6	Area of a Triangle

SET 4 PAPER 1	
A1	Ordering Integers
A1	Pictograms
A3	Negatives in Real Life
A4	Multiplying Integers
A4	Dividing Integers
A5	Equivalent Fractions
A5	Simplifying - Addition and Subtraction
A5	Simplifying - Multiplication
A6	Factors, Multiples and Primes
A7	Rounding to Decimal places
A7	Area of a Rectangle

SET 1 PAPER 2	
A2	Averages and the Range from a List
A3	Money Questions
A3	Translations
A3	Simple Factorisation
A4	Area of compound shapes
A5	Increase/Decrease by a Percentage (Calc.)
A5	Area of a Circle
A5	Simple proportion
A6	Averages from a Frequency Table
A7	Surface Area of a Prism - Triangular Prisms
A7	Two-Way Tables
A7	Volume of a Prism

SET 2 PAPER 2	
A2	Averages and the Range from a List
A3	Money Questions
A3	Simple Factorisation
A3	Translations
A4	Area of compound shapes
A5	Increase/Decrease by a Percentage (Calc.)
A5	Simple proportion
A5	Area of a Circle
A6	Averages from a Frequency Table
A7	Two-Way Tables
A7	Volume of a Prism
A7	Surface Area of a Prism - Triangular Prisms

SET 3 PAPER 2	
A2	Sharing using Ratio
A3	Frequency Trees
A3	Translations
A4	Simple Proportion
A4	Function Machines
A5	Money Questions
A5	Averages and the Range from a List
A6	Expanding Brackets
A6	Solving Equations
A7	Finding a Fraction of an Amount
A7	Increase/Decrease by a Percentage (Calc.)
A7	Value for Money
A7	Circumference of a Circle

SET 4 PAPER 2	
A1	Tally Charts and Bar Charts
A2	Co-ordinates
A2	Properties of 3D Shapes
A2	Angles on a Line and at a Point
A3	Listing Outcomes
A4	Averages and the Range from a List
A4	Two-Way Tables
A6	Money Questions
A6	Reflections
A6	Simple Proportion
A7	Function Machines

**Where to find revision resources?**  
Revision task on MathsWatch for each paper.

# Year 7 English

YEAR 7 END OF YEAR EXAMS		
Reading	Information	45 minute long exam. Extract from an opening scene with Lady Macbeth. In classroom assessment.
	Topic	Lady Macbeth and women in power. Extract from the early part of the play. You will need to know what happens to her at the end. You will also need to know the context of the 1600 during Shakespeare's life.
	Where to revise	Materials on Teams. BBC Bitesize – KS3 English Macbeth, characters and Lady Macbeth. YouTube for various video essays and video analysis.
Writing	Information	45 minute long exam. Choice of 2 tasks – a description based on a picture, or a story from the opening of a chapter. In classroom assessment.
	Topic	Creative Writing. Developing skills linked to writing for clarity, assessing on: 1. Language techniques (metaphors, similes, repetition) 2. Sentence variation 3. Punctuation 4. Paragraphing 5. Vocabulary choice
	Where to revise	At home, finding pictures by searching: KS3 Writing stimulus. Practice a story based on an image you find, and improve it by rereading.

## Y7 Shakespeare: Macbeth – End of Year Exam

Read the following extract from Act 1 Scene 7 and answer the question that follows. At this point in the play, Macbeth and Lady Macbeth are considering whether to kill Duncan.

### LADY MACBETH

What **beast** was't, then,  
That made you break this **enterprise** to me?

When you **durst** do it, then you were a man;

And, to be more than what you were, you would

Be so much more the man.

Nor time nor place

Did then **adhere**, and yet you would make both:

They have made themselves, and that their fitness now

Does unmake you. I have given suck, and know

**How does Shakespeare present Lady Macbeth as a powerful woman?**

### Decoded Vocabulary

**Beast** = An animal; here it means something wild or not human

**Enterprise** = A big, important plan (in this case, the plan to kill Duncan)

**Durst** = An old word meaning "dared" (was brave enough to do something)

How **tender** 'tis to love the babe that milks me:

I would, while it was smiling in my face,  
Have pluck'd my nipple from his **boneless** gums,

And dash'd the brains out, had I so sworn as you  
Have done to this.

### MACBETH

If we should fail?

### LADY MACBETH

We fail!

But screw your **courage** to the sticking-place,  
And we'll not fail

**Adhere** = To stick to something or fit with it

**Tender** = Gentle, soft, and caring

**Boneless** = Without bones (used to describe a soft baby's mouth)

**Courage** = Being brave, even when something is scary

# Year 7 Science

## Year 7 End of Year Test topics (May 2025)

### Section A Paper

#### Topic: Cells and Organ Systems

Key focus: Parts of a cell, organ systems

[What are plant and animal cells? - BBC Bitesize](#)

[How plants and animals are organised - Living organisms - KS3 Biology - BBC Bitesize - BBC Bitesize](#)

#### Topic: Reproduction

Key Focus: Human reproductive system, pregnancy, variation

[Human reproduction - Reproduction - KS3 Biology - BBC Bitesize - BBC Bitesize](#)

[Fetal development and birth - The human reproductive system - 3rd level Science Revision - BBC Bitesize](#)

[The menstrual cycle - The human reproductive system - 3rd level Science Revision - BBC Bitesize](#)

#### Topic: Acids, Alkalis and Chemical Reactions

Key Focus: Testing for pH values, reactions of acids and metals, reactivity series

[What is the pH scale and what does it measure? - BBC Bitesize](#)

[What is an acid and metal reaction? - BBC Bitesize](#)

#### Topic: Sound

Key Focus: Representing sound waves, the human ear

[Introduction to sound waves guide for KS3 physics students - BBC Bitesize](#)

#### Topic: Light

Key focus: Reflection, refraction, drawing light waves

[Light Waves - BBC Bitesize](#)

[Reflection guide for KS3 physics students - BBC Bitesize](#)

### Section B Paper

#### Topic: Lab Safety and the Particle Model

Key Focus: Elements, compounds and mixtures, changes of state

[What is the arrangement of particles in a solid, liquid and gas? - BBC Bitesize](#)

[What are changes of state? - BBC Bitesize](#)

#### Topic: Forces and Motion

Key Focus: Effects of forces, investigating forces

[Introduction to forces - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize](#)

[Hooke's law - Forces and movement - KS3 Physics - BBC Bitesize](#)

#### Topic: Energy and Energy Resources

Key Focus: Generating electricity, energy types and transfers

[Energy stores - Energy - KS3 Physics - BBC Bitesize - BBC Bitesize](#)

[Generating electricity guide for KS3 physics students - BBC Bitesize](#)

#### Topic: Breathing and Health

Key focus: Respiratory system, gas exchange, effects of smoking

[Structure and function of the gas exchange system - Respiration and gas exchange - KS3 Biology - BBC Bitesize - BBC Bitesize](#)

[The effect of asthma, smoking and exercise on the gas exchange system - Respiration and gas exchange - Biology - BBC Bitesize - BBC Bitesize](#)

#### Topic: The Earth and the Atmosphere

Key Focus: Types of rock, rock cycle, changes to the atmosphere

[Rock types - The Earth and atmosphere - KS3 Chemistry - BBC Bitesize - BBC Bitesize](#)

[The rock cycle - The Earth and atmosphere - KS3 Chemistry - BBC Bitesize](#)

# Year 7 History

**Exam paper information:** 1 paper - 50 minutes

**Where to find revision resources?**

Resources will be uploaded to Teams

London and Baghdad	The Norman Conquest	The Black Death	Break with Rome
<ul style="list-style-type: none"><li>• Similarities and differences between London and Baghdad.</li><li>• <b>Silk Roads / River Thames / Science / supernatural</b></li></ul>	<ul style="list-style-type: none"><li>• Who were the contenders to the throne? Harold</li><li>• How did William the Conqueror win the Battle of Hastings?</li></ul> <p><b>Luck, Leadership and Preparation.</b></p>	<ul style="list-style-type: none"><li>• Causes and consequences of the Black Death</li><li>• <b>1348</b></li><li>• <b>Spread by rats who had fleas</b></li></ul>	<ul style="list-style-type: none"><li>• Who were the Tudors? <b>Henry VIII, Edward VI, Mary I, Elizabeth I</b></li><li>• Why did Henry VIII break in Rome?</li><li>• What were the consequences of the break with Rome?</li></ul>

## Causes of the Break with Rome

1. **Love** – Henry VIII fell in love with Anne Boleyn and wanted to divorce Catherine of Aragon.
2. **Male Heir** - Henry VIII wanted a male heir for the throne.
3. **Religion** – Henry believed monks were misbehaving and wanted to break with the Catholic Church.
4. **Profit** – Henry wanted the tax which went to the Pope.
5. **Power** – The pope had power denied Henry his divorce.

## Consequences of the Break with Rome

1. **Henry VIII closed down the monasteries and communities lost their charity/ education.**
2. **The first bible was translated into English in 1536**
3. **People were confused and shocked about religious changes.**
4. **Monarchs faced more rebellions e.g. The Pilgrimage of Grace.**
5. **Thomas More was executed for treason after refusing to swear an oath to Henry.**

# Year 7 Geography

**Exam paper information:** 1 paper - 50 minutes

**Where to find revision resources?**

Resources will be uploaded to Teams

## Revision topics



<b>Unit 1 – Our Place in the UK</b>	<ul style="list-style-type: none"><li>✓ How did fieldwork help us to investigate our local area?</li><li>✓ What makes a city a city?</li><li>✓ What are some of the issues facing our urban environment?</li><li>✓ How can we overcome some of the challenges facing Birmingham?</li></ul>
<b>Unit 2 – Natural Hazards</b>	<ul style="list-style-type: none"><li>✓ What is going on under the earth? What are tectonic plates?</li><li>✓ How do tectonic plates lead to hazards?</li><li>✓ How do Earthquakes and Volcanoes form?</li><li>✓ How do tectonic hazards impact people around the world (including at least two examples!)</li></ul>
<b>Unit 3 – World Rivers</b>	<ul style="list-style-type: none"><li>✓ What is the water cycle?</li><li>✓ What are drainage basins?</li><li>✓ How do river landforms of Waterfalls and Meanders form?</li><li>✓ How does flooding impact people in the UK?</li></ul>

# Year 7 Spanish Revision

Click below for sentence builders

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# Year 7 Computer Science

**Exam paper information:** Part (A) – Written exam paper 45 minutes • Part (B) – ICT skills practical task

## Key Topics to Revise

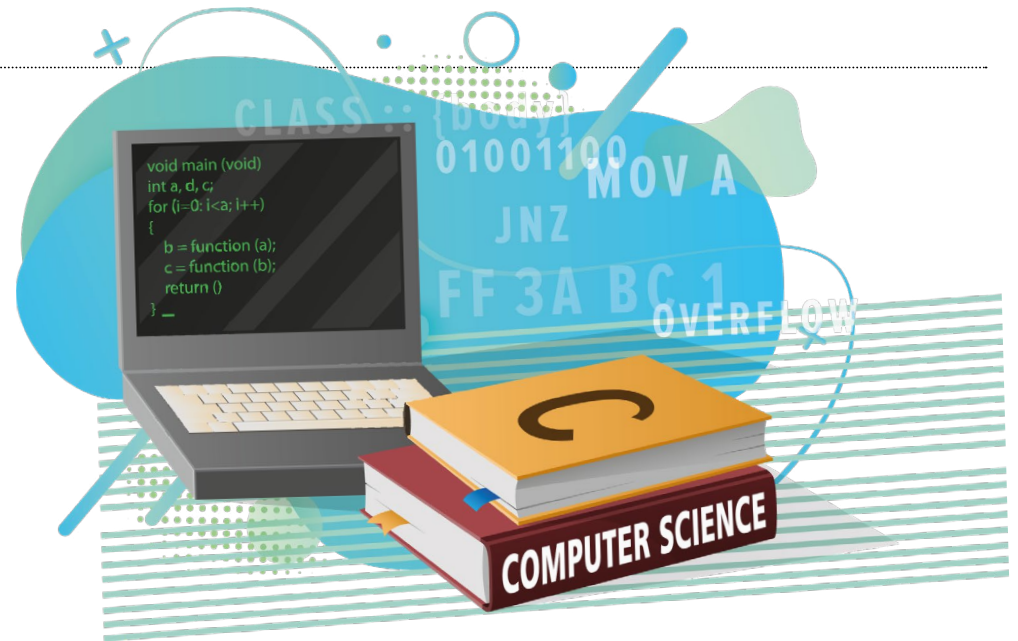
### Part (A)

- Online safety
- The reliability of online content
- Data handling
- The big three concepts in programming (Sequence, Selection and iteration)

- Analysing Scratch code
- Legal issues around copyright

### Part (B)

You will be asked to format a Microsoft Excel Spreadsheet to present data from a sporting event



**These web page links to BBC BITESIZE are very helpful.**

Sequence, selection and Iteration:



# Year 7 Religion, Philosophy and Ethics

**Exam paper information:** 1 paper - 50 minutes

## Key Topics to revise

Worldviews

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Judaism

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Beliefs about God

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Life of Jesus

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Eastern Religions

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**Where to find revision resources?**

Resources will be uploaded to Teams