The Holt School

KS3 End of Year Examinations

Year 8 Revision Guide

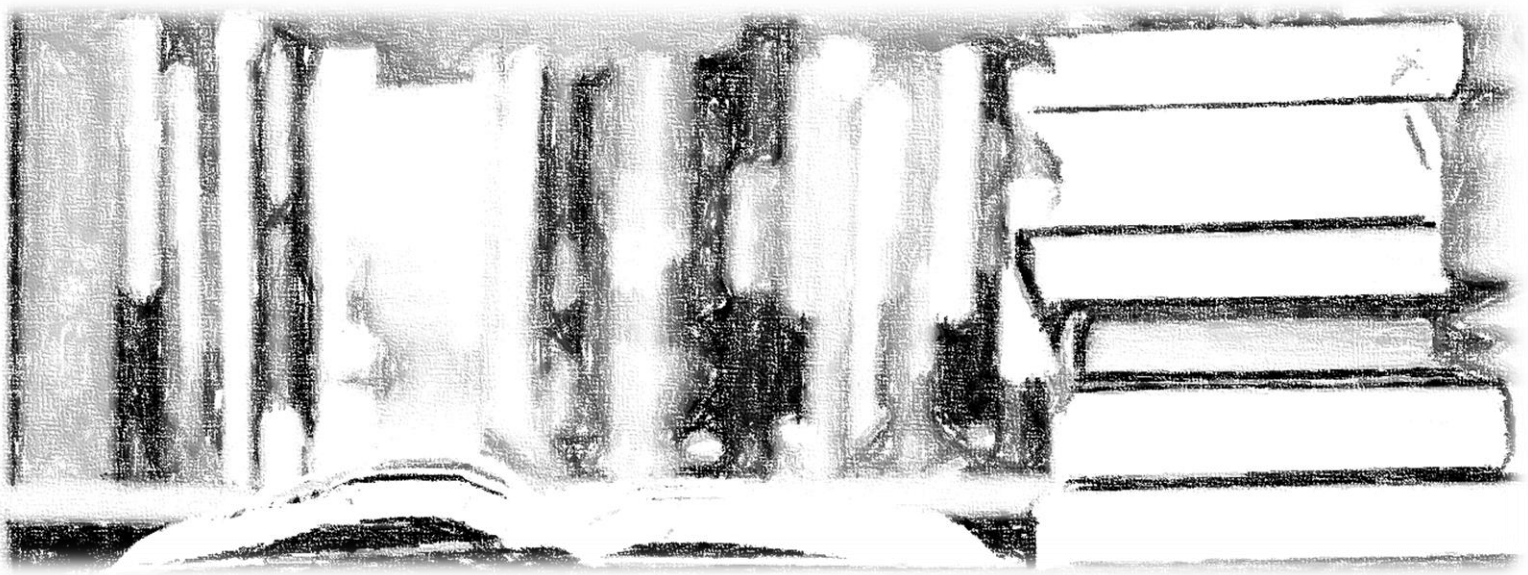

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Table of Contents

Art	pg. 1
Computing	pg. 1
English	pg. 2
French	pg. 3
Geography	pg. 3
History	pg. 4
Mathematics	pg. 5
Music	pg. 8
POR	pg. 10
Science	pg. 10
Spanish	pg. 15

There will be no end of year assessments in the following subjects:

PSHE

PE

Technology

Drama

Art

In year 8 there is no need to revise, but you will be producing a piece of work in exam conditions, over 2 lessons.

Computing

Recap of some Year 7 topics – including inside a computer and input and output devices

- Scratch Programming
- Flowcharts
- Control (recap of terms, concepts and symbols from FlowOl unit)
- Online Safety
- Binary and denary conversion
- Sorting and Searching Algorithms
- Python programming

English

Q	What to expect	Marks	Top tips
3	Structure question: How has the writer structured the text to…..(interest the reader/engage the reader etc.)?	8	• You need to focus ONLY on the structural features of the text • Use the bullet points in the question to guide you • Mention and develop comments on 3 things • Consider what is happening at this point in the text and why • Comment on the structural features you notice • Explain the effect of this on the reader. Why do you think the writer chose this structural feature?
5	Choice of: YOU COULD DO THIS FIRST! Write to describe (inspired by an image) Write to narrate (story) Could be any combination! This means 2 narrative/2 descriptive	40	• Be prepared to be given descriptive and narrative choice/two descriptive choices/two narrative choices • There is not a huge difference between narrative and descriptive writing so don't panic. Avoid too much dialogue in narrative writing • Descriptive - use the image as inspiration rather than simply describing the image (be original!) • Think carefully about who/what you are when describing • Zoom in on the senses/use language and structural devices/use good vocabulary Leave plenty of time for planning and PROOF READING - remember that 16 marks are for vocabulary, spelling and punctuation

Practice Papers to do at home are available in the following folder:

N Drive = Departments = English = Shared Work = KS3 Additional Practice Papers

French

Reading and Listening assessment covering Module 4 of their Studio text book.

Writing assessment of approx. 100-150 words. The questions will be given to the students in the last week of this half term – the students will have a choice of 2 questions, they should NOT answer both!

Translation from English to French and from French to English.

Resources

- Studio 2 text book
- Student's exercise book
- Pearson activelearn: the students will have accessed this in their computer lessons this year, and have their own log in and password.

Login: school username e.g. jbloggsh18

Password: D.O.B. including / e.g. DD/MM/YYYY

MFL websites e.g. linguascope username: holtschool password: languag35

funwithlanguages and langugesonline (both free to access)

Geography

Development

- What is an economy?
- What are the sectors of an economy?
- To know what has happened to the % of people employed in each sector.
- To know what interdependence means.
- T0 define development
- To know how development may be measured.
- To know what HDI measures.
- To be able to define both standard of living and quality of life.
- To know what inequality means and that it exists at the globally, nationally and locally.
- To know the causes of poverty around the world
- To know the solutions to poverty.
- To know what sustainable development is.
- To know what the SDGs (Sustainable Development Goals) are.

History

Focus on the knowledge of each point

-The Reformation and the changes it led to

-Causes of the English Civil War

-Scientific development in the 17th Century and witchcraft

-The 18th Century: Walpole, Act of Union 1707, long 18th century

-The Enlightenment and what it led to

-The French Revolution

Maths

8A Revision List. All of the chapter references are for the MyMaths books on Kerboodle

Topic	What to revise	Book	Chapter & exercise
Whole numbers and decimals	Powers of 10; rounding; order of operations; factors, multiples, divisibility and primes; prime factors, HCF and LCM; ordering decimals	3A	1a-f
Measures, perimeter and area	Shapes made from rectangles	2A	2g
Measures, perimeter and area	Metric and imperial measures; area; area of a triangle and parallelogram; circumference of a circle	3A	2a-f
Expressions and formulae	Simplifying expressions; writing a formula	2A	3e, 3g
Expressions and formulae	Simplifying expressions; using brackets; formulae	3A	3a-c
Fractions, decimals and percentages	Adding and subtracting fractions; fraction of a quantity; multiplying and dividing fractions; fractions and decimals; percentage of a quantity; percentage problems; repeated percentage change	3A	4a-h
Angles and 2D shapes	Angles and parallel lines; angles in a triangle; properties of triangles; angles in a quadrilateral; properties of quadrilaterals	3A	5a-e
Graphs	Horizontal and vertical lines; tables of values; drawing straight line graphs; equations of straight line graphs; interpreting real life graphs; time series graphs	3A	6a-g
Calculations	Addition and subtraction problems; written addition and subtraction; multiplication and division problems; interpreting the calculator display	2A	7d, 7e 11a,11f
Calculations	Addition and subtraction; mental multiplication and division; written multiplication; written division; estimating and approximating; using a calculator	3A	7a-f
Statistics	Averages from frequency tables; comparing data sets	2A	8h, 8i
Statistics	Designing a survey; collecting data; frequency tables; bar charts; pie charts; calculating averages; scatter graphs; stem-and-leaf diagrams; frequency diagrams;	3A	8a-j
Transformations & Symmetry	Reflection and rotational symmetry; Reflect shapes in a mirror lines; Translate shapes Rotate shapes; Enlarge shapes through a centre of enlargement; Use and draw scale drawings	3A	9a-e

8B Revision List. All of the chapter references are for the MyMaths books on Kerboodle

Topic	What to revise	Book	Chapter & exercise
Whole numbers and decimals	Powers of 10; Rounding; factors, multiples and primes; estimating and approximating	3B	1a-d
Measures, perimeter and area	Measures; area of a 2D shape; circumference and area of a circle; compound measures	3B	2a-f
Expressions and formulae	Expanding brackets; Writing formula	2B	3d, 3f
Expressions and formulae	Change the subject of formula	2C	3g
Expressions and formulae	Algebraic fractions; formulae in context;	3B	3b-c
Fractions, decimals and percentages	Adding and subtracting fractions; multiplying fractions; dividing by fractions; decimals and fractions; percentage change; percentage problems; repeated percentage change	3B	4a-g
Angles	Angles in parallel lines	2B	5c
Angles	Angles properties of a triangle, quadrilateral and polygon; congruent shapes	3B	5a-e
Graphs	Equation of a straight line	2B	6b
Graphs	Tables of values; drawing straight line graphs; Gradient of a straight line graph; y-intercept of a straight line graph; the equation y = mx + c; equations given implicitly; real life graphs; distance –time graphs; time series	3B	6a-i
Decimal calculations	Adding and subtracting decimals; multiplying decimals; dividing decimals; using a calculator; interpreting the calculator display	3B	7a-e
Statistics	Scatter graphs and correlation; stem-and-leaf diagrams	2B	8g, 8h
Statistics	Planning a project; data collection; frequency tables; statistical diagrams; calculating averages; interpreting graphs; correlation; averages from grouped data; comparing distributions	3B	8a-k
Transformations and symmetry	Enlargements	2B	9d-e
Transformations and symmetry	Reflections; translations; rotations; combinations of transformations; maps and scale drawings	3B	9a, 9c, 9d

8C Revision List. All of the chapter references are for the MyMaths books on Kerboodle

Topic	What to revise	Book	Chapter & exercise
Whole numbers and decimals	Rounding and estimation	2C	1f
Whole numbers and decimals	Significant figures; upper and lower bounds; using numbers in index form; prime factors; HCF/LCM	3C	1a-d
Measures, perimeter and area	Surface area of a prism; volume of a prism & cylinder	2C	14c-d
Measures, perimeter and area	Metric & imperial units; length and area; compound measures	3C	2a, 2c-e
Expressions and formulae	Algebraic fractions; expand brackets	2C	3d, 3i
Expressions and formulae	Factorise brackets	3B	3a
Expressions and formulae	Index Laws; identities; formulae; changing the subject of a formula	3C	3a, 3e-3g
Fractions, decimals and percentages	Fractions, decimal and percentages	2C	4f
Fractions, decimals and percentages	Calculating with fractions; recurring decimals and reciprocals; percentage increase and decrease; reverse percentages; repeated percentage change	3C	4a-e
Angles and 2D shapes	Angle facts (including parallel lines); angles in a polygon; circle properties; arcs and sectors;	3C	5a-b, 5d
Graphs	Equation of a straight line; graphs of implicit functions	2C	6b, 6e
Graphs	Find the equation of a straight line graph	3B	6e
Graphs	The gradient of a straight line; graphs of linear functions; quadratic graphs; cubic graphs; distance-time graphs; real life graphs; time series	3C	6a-b, 6d-i
Decimal calculations	Calculator skills	2C	11c
Decimal calculations	Order of operations; calculating with decimals; using a calculator; interpreting the calculator display	3C	7a-d
Statistics	Frequency tables; constructing diagrams; averages	2C	8c, 8e
Statistics	Planning a statistical survey; data collection; frequency diagrams; the mean; correlation; interpreting data; comparing distributions; box plots	3C	8a-f, 8h-j
Transformations and symmetry	Enlargements	2C	9d, 9e
Transformations and symmetry	Transformations; maps and scale drawings; similar shapes	3C	9a, 9d-e

Music

There will be two sections to your exam.

Section A: A selection of listening extracts related to topics you've studied throughout the year. You will answer questions based on the musical features.

Section B: Music theory, asking questions about note values, notes on the stave and notes on the keyboard.

Section A- Topics covered this year

Programme music –music written to express a feeling/mood/emotion or a scene or place as well as an animal or character/person!

Music from China.
Key features:

- Ostinato – repeated musical phrase
- Pentatonic Scale – 5 note scale– C D E G A
- Improvisation – melodies made up during the performance
- Erhu- Chinese string instrument which sounds like a violin

Important musical words:

Melody: The main tune
Texture: The number of parts/layers in a piece.
Dynamics: How loud or soft a piece or section of a piece is.
Tempo: The speed of a piece of music.
Instrumentation: The instruments or sounds used in a piece.
Time signature: How many beats there are in a bar (e.g 3/4, 4/4)
Key- Major (happy), Minor (sad)

Section A- Topics covered this year

Musical Terms

Tempo – speed

Allegro – fast

Andante – at a walking pace

Articulation

Staccato – short notes

Legato – smooth

Pizzicato – plucked strings

Dynamics

Forte –loud

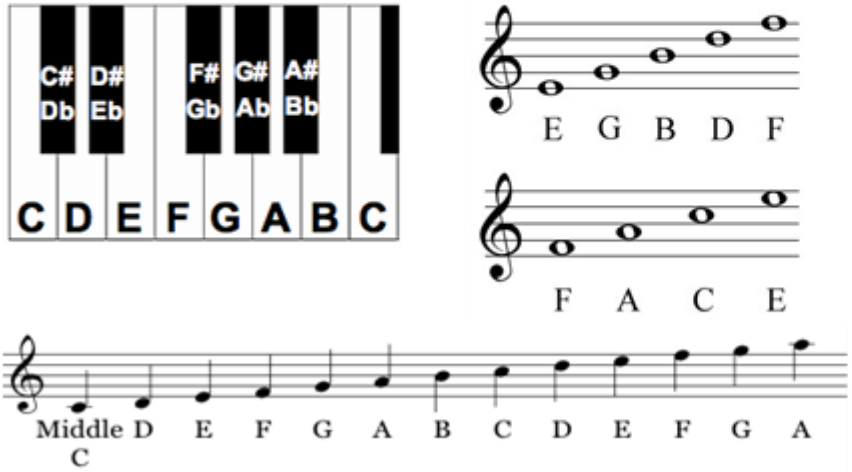
Piano – soft

Crescendo – getting louder

Section B – Musical Theory

crotchet= 1 | quaver = 1/2 | Minim = 2 | semibreve = 4 | semiquaver = 1/4

Recognise and name notes on the piano keyboard and treble clef.



Notes in the spaces

FACE in the SPACE Football

Notes on the line

Every Grandma Buys Delicious Fudge

POR - Ethics

Revise the topic Ethics.

Including:

- Transplant Surgery
- Genetic engineering
- Animal rights

Think carefully about non-religious and religious arguments on both sides

Science

You will have six revision lessons in Science where we will make revision materials and practice alternative techniques before the Science Exam. We advise you revise at home as well.

Mechanics

- Construct distance time graphs to show when something is moving and when it is stationary
- Interpret distance time graphs
- Calculate speed from a distance time graph
- Predict how a force will change the shape of a material
- Explain what Hooke's Law is and apply it to situations
- Describe the energy changes in a stretched material
- Calculate pressure (pressure = force / area)
- Identify when there is high or low pressure and know how to increase or decrease the pressure on a surface
- Explain how air and liquids behave under pressure
- Describe how pressure increases with depth in liquids and how gases create pressure
- Describe uses of pivots and how they work
- Calculate the moment of a force (moment = force x distance)
- Describe lever and piston systems as force multipliers

Photosynthesis

- Understand terminology relating to food chains and food webs and know that organisms in a chain or web are independent
- Explain the importance of photosynthetic organisms in food chains and webs
- Describe the conditions needed for a plant to carry out photosynthesis
- Recall the word and chemical equation for photosynthesis and know how the plant gets the reactants and what happens to the products
- Understand the importance of minerals to plants

- Identify and explain the ways in which a leaf is adapted to carry out photosynthesis
- Understand the importance of indicator species in assessing levels of pollution
- Describe the process of bioaccumulation and understand the long term significance of this

Chemical Reactions

- Recall the hazard symbols
- Compare the difference between physical and chemical changes
- Identify whether a change is physical or chemical
- State and identify the reactants and products of combustion
- State the reactants and products of fermentation and know uses and problems with the reaction
- Distinguish between aerobic and anaerobic respiration and know uses and problems with the reaction
- Recall the test for carbon dioxide (lime water)
- Recall the variables in an investigation
- Plan an investigation into rusting and know ways to prevent rusting from happening
- Recall the word equation for rusting
- Explain the conservation of mass principle in reactions
- Balance chemical equations, realising that there should be the same number of each element on each side of the equation

Light and Vision

- Distinguish between luminous and illuminated objects
- Identify transparent, translucent and opaque objects
- Recall that light travels in straight lines and can cause shadows
- Recall the law of reflection and construct diagrams showing reflection
- Explain why refraction happens
- Explain dispersion and the spectrum
- Recall the order of the colours in the spectrum
- Explain how lenses converge light rays
- Discuss how lenses are used in cameras and the human eye
- Recall the primary and secondary colours of light
- Explain how filters work in terms of absorption and transmission of the different colours of light

Elements, Compounds and Mixtures

- Define elements, compounds and mixtures, give examples of each and compare the differences between them
- Explain how filtration works, what it separates and the terms filtrate, residue, funnel and filter paper
- Explain how evaporation is also a separating technique and what it can separate
- Describe distillation as a separating technique, using the terms evaporation and condensation
- Describe the process of fractional distillation of crude oil
- Explain what chromatography is, what is separates and how it separates
- Recall that compounds have fixed compositions
- Describe what a chemical formulae is

Food and Digestion

- Recall the components of a balanced diet and give examples of each
- Explain the function of each component of a balanced diet
- Discuss what malnutrition is and use examples including obesity
- Calculate energy requirements based on their life style
- Recall the food tests for lipids, proteins, carbohydrates and starch
- Recall the position of the organs involved in digestion and know the function of each one
- Describe that food molecules need to be digested before they can be absorbed into the blood
- Recall the importance of enzymes involved in digestion and know specific examples for proteins, fats and starch
- Explain the role of bacteria in the human digestive system

Energy

- Recall the nine forms of energy
- Discuss energy transfers and construct energy flow diagrams
- Define a joule
- Calculate the energy transferred to an object by doing work (work done = force x distance)
- Identify if energy is useful or wasted
- Describe how energy is conserved and how it can be saved by reducing waste
- Calculate energy supplied (energy supplied – useful energy + wasted energy)
- Recall what fossil fuels are and describe how they are formed

- Give advantages and disadvantages of fossil fuels
- Define non-renewable and renewable in terms of fuels
- Describe the energy transfers that occur in a power station
- Recall that 1kJ = 1000J
- Describe that increases and decreases in the amount of energy can be associated with temperature in investigations
- Give advantages and disadvantages of nuclear fuels
- Identify different types of renewable energy resources and describe how they work
- Give advantages and disadvantages of renewable sources of energy
- Calculate power (power = energy / time)
- Use the term Kilowatt-hours and use this to work out the cost of energy usage

How my Body Works

- Recall the functions of a skeleton and know the different types of skeleton
- Describe the interaction between muscles and the skeleton
- Discuss examples of antagonistic muscle
- Predict the force exerted by a muscle
- Recall the word and chemical equation for aerobic respiration
- Discuss how the reactants are obtained and what happens to the products of aerobic respiration
- Recall the word and chemical equation for anaerobic respiration
- Discuss how the reactants are obtained and what happens to the products of anaerobic respiration
- Compare aerobic and anaerobic respiration
- Recall the components of the circulatory system and the functions of each part
- Explain the role of the circulatory system in respiration
- Interpret information on how exercise affects the circulatory system
- Recall the structure of the respiratory system and the functions of each part
- Discuss where gas exchange occurs
- Describe the mechanism of breathing and air movement in terms of air pressure
- Discuss the impact of exercise, asthma and smoking on the human gas exchange system
- Discuss the effects of recreational drugs on behaviour, health and life process
- Explain how the different drug categories can affect the body

Spanish

Use the Mira 2 book to revise the key vocabulary from each module covered up to May half term:

Module 1 (Pg 22-23) – people, presentations, talking about other people, comparatives, nationalities, expressing opinions

Module 2 (Pg 40-41) – talking about places in the town, inviting someone out, making excuses, likes and dislikes

Module 3 (Pg 58-59) – holidays, using the past tense, saying where you went, who with and what you did

Module 4 (Pg 76-77) – food, describing meals, food and drink preferences, eating out, using 3 tenses together

Module 5 (Pg 94-95) – clothes, giving opinions about clothes, saying what you are going to wear

In addition make sure that you have revised the quantifiers (un poco, bastante, muy), the grammar rules for adjective agreement/word order etc and the formation of the preterite (past) tense, present tense and the immediate future tense.

For the translation assessment practice using the short texts from the textbook to translate into English and test yourself on writing short phrases in Spanish. Make a note of any new vocabulary you look up and revise these separately.

You will complete **three assessments** over **2 assessment hours**:

1) **Reading and Listening assessments** (similar to the end of module assessments you have completed so far this year).
2) **Translation assessment**
    a) 5 short statements to translate from English into Spanish
    b) A short paragraph to translate from Spanish into English

Additional revision sources:

www.linguascope.com (holtschool / languag35)

www.espanol-extra.co.uk (holtschool / holtspanish)

www.zut.org.uk → OYE → (1123/ holtspanish)

www.languagesonline.org.uk → Español

Google → Fun with Languages → Spanish → KS3