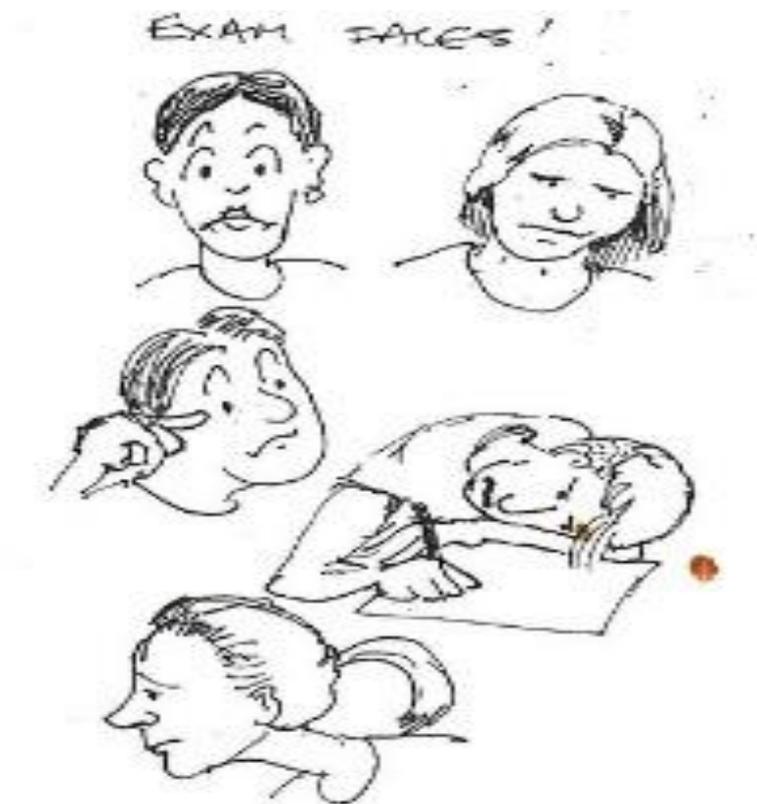




HEYFORD PARK
FREE SCHOOL
BONUM COMMUNE COMMUNITATIS

REVISION BOOKLETS

Year 8



MATHEMATICS



Year 8		
Topic	Strand	Revision
Place Value	Number	https://www.bbc.com/education
Factors, Multiples and Primes	Number	
Decimals and Fractions	Number	
Expanding and Simplifying Brackets - Single Set of Brackets	Algebra	
Simple Proportion	Ratio	
Percentage of an Amount (Calc.)	Number	
Fractions, Percentages, Decimals	Number	
Averages and the Range	Statistics	
Stem And Leaf Diagrams	Statistics	
Coordinates	Algebra	
Calculating Probabilities	Probability	
Solving Equations - Balancing	Algebra	
Simplifying Expressions	Algebra	
Solving Equations using Flowcharts	Algebra	
Angles in a Triangle	Geometry	
Simple Proportion	Ratio	
Subject of a Formula using Flowcharts	Algebra	
Introduction to Powers/Indices	Number	
Time Series	Statistics	
Frequency Tables and Diagrams	Statistics	
Distance-Time Graphs	Ratio	
Compound Interest and Depreciation	Ratio	
Area of a Triangle, Rectangle, Circles	Geometry	
Perimeters	Geometry	
Sequences - nth term	Number	
Straight line graphs	Algebra	

Revision ideas

Khanacademy.org

YouTube clips



All the end of year assessments in English will follow the GCSE English Language curriculum. AQA, the exam board we follow, has designed specific differentiated papers for years 7-10 which we will mark to gain an understanding of both reading and writing skills needs linked specifically to GCSE assessment objectives across all year groups. This data will inform our curriculum planning and intervention for next academic year.

Year 8 students will complete a Paper 2 assessment of 1 hour and 45 minutes. This is separated in Section A (reading) and Section B (writing) and having 80 marks available.

For Section A, students get 2 texts, one 19th or 20th century extracts (approximately 1 side of A4) and they must answer 4 questions based on this extract.

Q1 (4 marks)- chose 4 statements that are true from a choice of 8 statements

Q2 (8 marks)- compare the 2 sources by summarising them

Q3 (12 marks)- analyse language from one source only

Q4 (16 marks)- compare different viewpoints and writers' methods

For Section B, students get a statement which they should use to argue, persuade, advise, give their opinion and this is marked out of 40 marks.

Revision ideas

- BBC Bitesize GCSE English Language AQA <https://www.bbc.co.uk/education/examspecs/zcbchv4>

-see Miss Marin in FB01 for further revision materials you might require



In the summer term, all year 8 students will sit a one hour end of year assessment. This will contain a mixture of multiple choice, calculation, short and long answer questions.

The assessment could include any of the topics covered this year in science:

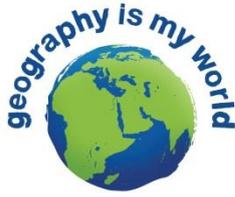
- 1. Forces**
Friction and drag, squashing and stretching, turning forces (moments), pressure in gases and liquids.
- 2. Electromagnets**
Magnets and magnetic fields, electromagnets and their uses.
- 3. Energy**
Work, energy and machines, energy and temperature, energy transfer – conduction, convection and radiation, thermal insulation.
- 4. Waves**
Sound waves and water waves, radiation and energy, modelling waves.
- 5. Matter**
Atoms, elements and compounds, chemical formulae, polymers, the periodic table – groups 1, 7 and 0.
- 6. Reactions**
Combustion and thermal decomposition, conservation of mass, exothermic and endothermic reactions – energy level diagrams and bond energies.
- 7. Earth**
Global warming, climate change and the carbon cycle. Extracting metals and recycling.
- 8. Organisms**
Gas exchange, breathing, drugs, alcohol and smoking. Nutrients, food tests and balanced diets. The digestive system and digestive enzymes.
- 9. Ecosystems**
Aerobic and anaerobic respiration, biotechnology. Photosynthesis, leaf adaptations and plant minerals.
- 10. Genes**
Natural selection and Charles Darwin, extinction and preserving biodiversity. Inheritance, DNA, genetics and genetic modification.

Useful resources

CGP make KS3 science revision guides and workbooks, which are an excellent (optional) resource to help support your child with their revision. www.cgpbooks.co.uk

BBC Bitesize (KS3 Science) is another good source of revision information and includes repeatable test activities. www.bbc.co.uk/education

Geography



In the final term of year 8, students will be required to sit an assessment in geography that will bring together all of their understanding from throughout the whole year.

This assessment will be 1 hour in duration and will have a wide variety of questions, from multiple choice, to extended writing.

As the subject is divided into human geography and physical geography, the paper that students will sit, will be a human geography style paper. This will link to the topics of population, China and climate change that were studied in terms 1, 2 and 3 of this academic year.

What do students need to know?

- Key words linked to population: for example, densely populated, sparsely populated, rural and urban.
- How to interpret graphs showing population information.
- The difference between push and pull factors.
- Compass points to help with interpretation of maps.
- The impact of rural-urban migration in China.
- How to describe information shown on population pyramids.
- How China's population policy has been changed.
- How our climate is changing and some of the evidence for this.

Some helpful resources

<http://www.bbc.co.uk/schools/gcsebitesize/geography/population/> (Some key information about population structure and keywords as well as some information about the one child policy in China)

<http://news.nationalgeographic.com/2015/11/151113-datapoints-china-one-child-policy/>

<https://climate.nasa.gov/evidence/>

http://www.bbc.co.uk/schools/gcsebitesize/geography/migration/migration_trends_rev2.shtml

(Push and pull factors)

http://www.bbc.co.uk/schools/gcsebitesize/geography/rural_environments/changes_rural_areas_le_dcs_rev1.shtml (rural-urban migration impacts)

<http://petrimoulx.pbworks.com/f/Chapter17skillbuilder.pdf> (interpreting population density maps)

All the end of year assessments in History will follow the GCSE History question stems format. For Year 8 the questions have been adapted to reflect the Key Stage 3 curriculum skills required and age ability. Students will complete these question types based on topic contents that they have covered in History lessons so far this year. This data will inform our curriculum planning and intervention for next academic year.

YEAR 8

Will have one hour to complete 4 extended answer questions containing the following question stems –

- Explain two consequences of[8]
- Write a narrative account analysing X..... [8]
- Explain two of the following – The importance of X for Y.....[8] x2

Students will need to complete two questions from a selection of 3 options for the final question, completing four 8-mark questions in total for the whole paper.

The paper will be out of **32 marks** and will cover features from the American West topic that students have been studying in lessons since February/March –

- Early settlement of the West, 1835-1862 – including: The Plains Indians, the boundaries of the states and the Permanent Indian Frontier, reasons for migration west and the introduction of the reservations policy.
- Development of the Plains, c1862-1876 – including: The impact of the Civil War, Homesteaders, the role of a cowboy and the problems facing law and order in the West.
- Conflicts and Conquest, c1876-1895- Including: Law and order, conflict between the settlers and plains tribes, the 'Plains Wars' and the destruction of the Indians way of life.

Revision ideas

- Mrs Rhymes will be uploading a student revision guide onto Show My Homework for students to use.
- The support pages uploaded to Show My Homework with the takeaway task for this unit will also be of use to students.
- The following websites may also be of use to students -
 - <http://www.bbc.co.uk/schools/gcsebitesize/history/shp/americanwest/>
 - <https://www.youtube.com/watch?v=p4FKkwkoPpQ> (this is a 30 min revision video from BBC Bitesize)

ESPAÑOL

Year 8 will be assessed on their reading and writing skills. The reading assessment will consist on multiple choice questions and answering questions in English. The topics covered in the reading assessment are: shops, food, places in town, clothes, opinions, free time activities, recognising future, present and past tenses. The second part of the assessment will consist on a writing piece related to holidays and free time activities. Students are expected to apply past, present and future tenses.