

Year 11 progress Tests Revision

Maths

20	Circle Theorems – all	X			
	Powers (indices)	X			
14	Multiplying/dividing powers	X	18	Sampling data	
	Standard Form	X		Frequency polygons	
8	Basic algebra	X		Cumulative frequency graphs	
	Factorisation	X		Box plots	
	Quadratic expansion	X	23	Histograms	
	Expanding squares	X		Equation of a circle	
	More than two binomials	X	8	Other Graphs	
	Quadratic Factorisation	X		Graph transformations	
7	Congruent triangles	X	8	Factorising $ax^2 + bx + c$	
	Rotational symmetry	X		Changing the subject of a formula	
	Transformations (including combined)	X	17	Plotting quadratics	
	Loci	X		Solving by factorising	
16	Plans and Elevations	X		Further 2D problems	
	Recurring decimals	X	22	Further 3D problems	
	Estimating powers and roots	X		Multiple trig angles	
	Negative and fractional powers	X		Sine and cosine rule	
	Surds	X		Finding area using sine	
5	Limits of accuracy	X	4	Special sequences	
	Choices and outcomes	X		n^{th} term of quadratic sequence	
	Ratio	X	21	Algebraic direct proportion	
	Proportion	X		Algebraic inverse proportion	
	Best buys	X	25	Vectors	
	Compound measures	X		Linear inequalities	
10	Repeated percentage change	X	15	Graphical inequalities	
	Reverse percentages	X		Trial and improvement	
	Drawing line graphs	X	9	Volume of a prism	
	$y = mx + c$	X		Cylinders	
Solving sim. eqn.s graphically	X	Volume of a pyramid			
9	Parallel and perpendicular lines	X		Cones and Spheres	
	Circles and sectors	X	17	Quadratic formula	
Areas of parallelograms and trapeziums	X	Completing the square			
23	Distance-time graphs	X			Turning points
	Velocity-time graphs				Sim. eqn.s with quadratics
	Estimating area under curve				Quadratic equation intersections
	Rates of change			Quadratic inequalities	
-	3D coordinates	X	24	Algebraic fractions	
11	Pythagoras' theorem	X		Changing subject of formula	
	Pythagoras' theorem in 3D	X		Functions	
	Trigonometry	X		Composite functions	
	Exact trig values	X	12	Iteration	
	Trigonometry and bearings	X		Similar triangles	
15	Linear equations	X	-	Areas and vol.s of similar shapes	
	Simultaneous equations	X		Dimensions	
13	Experimental probability		-	Algebraic proof	
	Mutually excl and exhaustive outcomes		19	Addition rule for probability	
	Expectation			Combined events	
	Probability and two-way tables			Tree diagrams	
	Probability and Venn diagrams			Independent events	
				Conditional probability	
			20	Circle theorem proofs	

English

All the students in Year 11 have been sent Paper 2 Language Reading and Writing revision via SMH.

Languages – German

Reading/Listening (Comprehension)

Revise vocab covering Y10 topics:

- Family & Relationships
- Marriage & Partnerships
- Free time
- Media (Music, TV, Film)
- Technology
- Where I live

Writing:

Specific skills:

- 90-word writing tasks
- Translation into English
- Accurate use of different tenses
- Giving opinions
- Variety of higher-level structures

Languages – French

For the 90 word Writing Test essay, revise ME, MY FAMILY and FRIENDS; and HOME, TOWN, NEIGHBOURHOOD and REGION. Remember that you will need to be able to write accurately in the past, present and future (PPF). A useful starting point to revise PPF is the verb table at the back of your planner.

Listening and Reading Test questions cover all topics. Study past papers to remind yourself of the different types of texts and questions. Pay special attention to the French in your transcripts of listening papers: "If it's come up before it'll come up again."

Separate Science - Chem

- Organic chemistry-
 - Carbon compounds as fuels and feedstock
 - Crude oil, hydrocarbons and alkanes
 - Fractional distillation and petrochemicals
 - Properties of hydrocarbons
 - Cracking and alkenes
 - Reactions of alkenes and alcohols
 - Structure and formulae of alkenes
 - Reactions of alkenes
 - Alcohols
 - Carboxylic acids
 - Synthetic and naturally occurring polymers
 - Addition polymerisation
 - Condensation polymerisation
 - Amino acids
 - DNA (deoxyribonucleic acid) and other naturally occurring polymers
- Using resources

- Using the Earth's resources and obtaining potable water
 - Using the Earth's resources and sustainable development
 - Potable water
 - Waste water treatment
 - Alternative methods of extracting metals
- Life cycle assessment and recycling
 - Life cycle assessments
 - Ways of reducing the use of resources
- Using materials
 - Corrosion and its prevention
 - Alloys as useful materials
 - Ceramics, polymers and composites
- The Haber process and the use of NPK fertilisers
 - The Haber process
 - Production and uses of NPK fertilisers
- Chemistry of the atmosphere
 - The composition and evolution of the Earth's atmosphere
 - The proportions of different gases in the atmosphere
 - The Earth's early atmosphere
 - How oxygen increased
 - How carbon dioxide decreased
 - Carbon dioxide and methane as greenhouse gases
 - Greenhouse gases
 - Human activities which contribute to an increase in greenhouse gases in the atmosphere
 - Global climate change
 - The carbon footprint and its reduction
 - Common atmospheric pollutants and their sources
 - Atmospheric pollutants from fuels
 - Properties and effects of atmospheric pollutants
- Rate and Extent of Chemical Change
 - Rate of reaction
 - Calculating rates of reactions
 - Factors which affect the rates of chemical reactions
 - Collision theory and activation energy
 - Catalysts

Combined Science - Chem

- Organic chemistry-
 - Carbon compounds as fuels and feedstock
 - Crude oil, hydrocarbons and alkanes
 - Fractional distillation and petrochemicals
 - Properties of hydrocarbons
 - Cracking and alkenes
- Using resources
 - Using the Earth's resources and obtaining potable water
 - Using the Earth's resources and sustainable development
 - Potable water
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 - Alternative methods of extracting metals
 - Life cycle assessment and recycling
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Geography

Ecosystems

Urban futures

Distinctive landscapes

History

20th Century Medicine – Penicillin, Liberal reforms, NHS, technology, Health issues in the late 20th century including Government campaigns

Medicine on the W. Front during WWI

Business Studies

Skills of and benefits of being an entrepreneur

- Market research
- Market Mapping
- Sources of Finance
- Market Segmentation
- Revenue, Costs and Profit
- Break-Even
- Cash Flow Forecast
- E-Commerce
- Business Formats

Computing

units 1,2 & 6.

iMedia

No test

Art

No tests

RE

RE test will be sat in 2 separate lessons. One with myself and one with Mr Uthman. Each part of the test will last 25 minutes and will be worth 21 marks each (**42 in total**).

1. **Sacraments**
2. **Baptism**
3. **The role of the Spirit**
4. **Prayer**
5. **Accounts of Creation**

6. The problem of evil and suffering

The test will be made up of:

- Three x 3 mark questions (9 marks in total)
- Two x 6 mark questions (12 marks in total)
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Please use your class notes and exercise books to support your revision.

In addition to this, online platforms such as Seneca Learning have specific online courses to match our specification. I will go through this with you this week in lesson.

<https://senecalearning.com/en-GB/>

- Your class codes are:
- 11A: **o62cxsf49**
- 11c: **d7owognh4d**
- In addition, whilst fairly basic, BBC bite size have a specific RE OCR section that will be useful.

The Christian beliefs section can be found here:

<https://www.bbc.co.uk/bitesize/topics/z4gx47h>

Biology combined science

Cells -organelles, the cell cycle

Magnification calculations

Movement of molecules - diffusion, active transport, osmosis

Enzymes

The Heart and Blood Vessels

The Blood

Health and Disease

Photosynthesis

Respiration

Endocrine system - homeostasis, control of blood glucose

Biology Separate Science

All of the combined science revision topics, plus:

Monoclonal antibodies

Nervous System

Plant diseases/defences

Physics for combined science:

Please revise the following topics for your progress test on Thursday 24th September:

- Energy
- Electricity
- Particles
- Atomic Structure

Physics for separate science

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- Energy
- Electricity
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- Atomic Structure

This is everything that will be covered in your summer Paper 1 exam.

Drama

Prepare typed revision notes on one actor from Dr. Faustus in 2 scenes in preparation for Progress Tests on 21st Sept. • Use exemplar essays to help with your notes • Ensure you have quotations – which must be learnt! • Ensure you have references to the epic style – and make sure you understand what the intentions are in using this style. Generally, it allows the audience to reflect/ponder/consider a theme/idea – why?

Music

Music test will be a listening exam on the topics;

'Rhythms of the World'

'The Concerto through Time'

Food Tech

Macronutrients (Fat, Carbohydrate, Protein).

- Micronutrients (Vitamins and Minerals)

- Commodities: Milk

- Raising Agents

- Dietary needs through life.

- Functional Properties of Protein

PE

- *paper 1*

The structure and functions of the musculoskeletal system

The structure and functions of the cardio respiratory system

Movement analysis

Types of training

- *Paper 2.*

Skill

Classification of Skill

Guidance

Goal Setting (SMART targets)

Performance and Outcome Goals

Motivation

Types of feedback

Personality types

Arousal

Stress management techniques

Information Processing

