YEAR 9 PPE1 REVISION LIST

Subject	Exam Structure	Topics	Revision Resources (including links)
Maths	A 45 minute non-calculator exam		www.sparxmaths.co.uk *Sparx Clip Numbers:*
		- Continuing Fibonacci, triangular & square sequences	M241, M981
		- Nets of 3D shapes	M518
		- Simplify ratios	M885, M543
		- Make sensible estimates for length, mass and volume	M487
		- Use function machines to find inputs and outputs	M175, M428
		- Simplify products of algebraic terms	M120, M608
		- Square, square roots, cube and cube roots	M135
		- Use properties of angles at a point	M502
		- Use properties of angles on a straight line	M163
		- Use properties of oppositive angles at a vertex.	M818
		- Sort data using venn diagrams	M829, M419
		- Enlarge shapes using a positive scale factor	M178
		- Translations	M139
		- Plot coordinates in all four quadrants	M618
		- Perimeter of simple shapes	M920, M635
		- Area of rectangles	M390
		- Four operations with decimals	M429, M152, M803
		- Division calculations that result in decimals	M288
		- Share a total in a ratio	M525
		- Substitute positive numbers into expressions	M417, M327
		- Collect like terms	M795, M531, M949
		- Simplify simple algebraic fractions	M754
		- Solve linear equations with one term	M707, M509
		- Solve simple linear inequalities	M118
		- Use the prime decomposition of numbers to find HCF & LCM	M108, M365
		- Angles in parallel lines	M606
		- Angles in triangles and quadrilaterals	M351, M679
		- Averages with discrete data	M440, M127
		- Rotations using a centre of rotation	M910

		- Linear Graphs	M797, M932
		- Areas and perimeters of compound shapes	M690
		- Multiplication and division calculations	M187, M354, M263
		- Ratio problems when given the difference between two quantities	M801
		- Multiplying algebraic terms	M813
		- Expanding one bracket	M237
		- Factorise simple linear expressions	M100
		- Convert between percentages and decimals	M958, M264
		- Bearings	M260, M416
		- Averages and range of discrete data	M841, M940, M934, M328
		- Enlargements with positive scale factors	M178
		- Compare data using their averages and range	M440
		- Draw and interpret Distance Time Graphs	U914, U403, U462, U966
		- Draw and interpret conversion graphs	U652, U638
		- Draw and interpret speed-time graphs	U562,U937,U611
		- Circumference of circles, semi and quarter circles and compound shapes	U604
		- Area of circles, semi and quarter circles and compound shapes	U950
		- Laws of Indices	U851,U235,U694
		- Finding a percentage of an amount	U554, U349
		- Increase and decrease amounts by percentages	U773, U671
		- Using a multiplier for percentages	U671
		- Substitutions	U201, M327
		- Change the subject of a formula	U556
		- Nth term of a quadratic sequence	U206
		- Nth term of a geometric sequences	U958
		- Surface area of prisms and cylinders	U929, U259, U464
		- Four operations with standard form	U264, U290
		- Percentage increase and decrease using a multiplier	U671
		- Compound units	U151, U256, U910 and U527
		- Solve harder linear equations involving fractions	U505
		- Solve harder quadratic equations by factorising (a>1)	U960
		- Solve quadratic inequalities and represent on a number line	U133

RE	A 45-minute exam Questions will test students on: Knowledge Understanding Evaluation	**Year 9-We have learnt... We are learning...** **Last half term we learnt** 1. Genealogy- Family tree of Jesus. 2. Important people in Jesus' life. 3. Imago Dei. 4. Sanctity of life 5. Arguments for and against Abortion. (Catholic) 6. Arguments for and against Euthanasia. (Catholic). 7. Immortality of the soul. 8. Artistic representation of Heaven. **This half term we are learning about...** 1. Protoevangelium. 2. Esther, who is Esther. 3. Important women in Jesus' life. 4. How Mary saved us and the Magnificent. 5. How Mary interacts with us. 6. Fatima. 7. Pilgrimage	Notes in RE exercise book
History	A 45- minute exam Knowledge questions Source skills Extended writing	**Russian Revolution and Life in the Soviet Union** – Russian society in 1900 – Why Tsar Nicholas II was unpopular – What communism is – Reasons for the Russian Revolution – The storming of the Winter Palace – How life changed under communism – Stalin – Russian Revolution key words	Your exercise book Exam technique PowerPoint and practice questions on Microsoft Teams. Useful links/videos: https://www.bbc.co.uk/bitesize/topics/zp94jxs https://www.bbc.co.uk/bitesize/guides/ztyk87h/revision/1 https://www.bbc.co.uk/newsround/41904621 https://www.bbc.co.uk/teach/class-clips-video/history-ks3-communism/zkpnscw
English	60-minute exam. Knowledge Questions and Analytical Essay	A Christmas Carol-Charles Dickens Context and Context of the novel. Analytical Essay about a main character.	Exercise Book A Christmas Carol Booklets (On Teams)

Art	45 – minute exam. Structure and layout of a sketchbook page.	Presentation of Natural Forms sketchbook page. Show skills and techniques using biro pen, pencil, watercolour and colour pencil.	Completion of all 4 drawings: Biro pen Shell Watercolour/ colour pencil Leaf Pencil Leaf Pencil Skull
Science	45 minutes exam. Mix of multiple choice, short and long answer.	B1 & B2 – Cell Structure and Division - Microscopes; Animal and Plant Cells; Eukaryotes and Prokaryotes; Specialisation of Animal & Plant Cells; Diffusion; Osmosis; Osmosis in Plants; Active Transport; Exchanging Materials; Cell Division; Growth and Differentiation; Stem Cells. Required Practical's: Using a Light Microscope & Investigating effect of salt or sugar concentration on mass of plant tissue. C1 & C2 – Atomic Structure and Periodic Table - Atoms; Chemical Equations; Separating Mixtures; Distillation; Chromatography; History & Structure of the Atom; Ions and Isotopes; Electronic Structures; Development of the Periodic Table; Electronic Structures and the Periodic Table; Group 1, 7 & 0 Group 7; Transition Elements (Triple) P1 & P2 – Energy Stores and Heating - Energy Stores & Conservation; Work; Gravitational Potential, Kinetic and Elastic Energy; Dissipation; Efficiency; Electrical Appliances; Power; Conduction; Infrared Radiation (Triple); Specific Heat Capacity; Heating and Insulating Buildings. Required Practical's: Investigating Thermal Insulators & Specific Heat Capacity	Exercise books & BBC Bitesize Tassomai: Quizzes to use are: - Cell Biology - Atomic Structure & Periodic Table - Energy
Geography	45 minutes exam. Mix of multiple choice, short and long answer.	Geographical Skills and knowledge that are covered in… Development – Different ways of measuring development – Key terminology including GDP and what it shows. – Human and Physical factors that affect development. – Strategies used to reduce the development gap e.g., debt relief and aid. – The role of TNC's (Transnational Corporations) in helping and hindering development. Climate Change	https://artsandculture.google.com/project/sustainability

		– Describing past climate using key terminology (glacial and inter-glacial). – Explaining the Greenhouse Effect. – Human activities that release different Greenhouse Gases into the atmosphere. – Outlining the consequences of climate change on different parts of the World. – Explaining how biodiversity and ecosystems can be threatened by global warming. – Causes, location and impacts of wildfires.	
French	45 minutes exam. Mix of multiple choice, short and long answer. <u>Skills:</u> Reading, Writing, Grammar.	Me and the relationships around me: 1.Me & my family 2.Getting on with others 3.Personal relationships 4.Future relationships Technology in everyday life: 5.Communicating online 6.The uses of social media 7.Mobile technology: pros/cons 8.Mobile technology: uses Free-time activities: 9.Hobbies 10.Free-time activities 11.Food & meals 12.Eating out	Memrise https://app.memrise.com/group/506368/ -> AQA New GCSE French BBC Bitesize
Portuguese	45 minutes exam. Mix of multiple choice, short and long answer. Skills: Reading, Writing, Grammar.	About me: - Describing emotions, - using comparatives, superlatives, - What I like - in general, free time Travelling, holidays and plans - Transportation, airports - planning holidays **Key Grammar** *Expressing will – Eu quero…* *Future - eu vou falar...* Present Continuous - eu estou a falar...	Teams Year 09 group Practise Activities and Weekly Assignments for Revision

		Comparatives and Superlatives **Key Vocabulary** Comparing - a mais bonita… Emotions - triste, alegre, contente… Travelling - Aeroporto, mala, avião... Films - aventuras, comédia...	
Spanish	45 minute exam. Mix of multiple choice, short and long answer. Skills: Reading, Writing, Grammar, Translation.	- El tiempo (Describing the weather in the past and present tense) - Te llevas bien con tu familia? (Describing family members and your relationship with them) - Mis aplicaciones favoritas (Talking about how you use technology) - Fanatico del deporte (Saying what sports you used to play using the imperfect tense) - Temas del momento (Talking about what's trending using the perfect tense) - En directo (Talking about different types of entertainment)	Lesson slides Classwork in books (including revision lessons) BBC Bitesize
Computing	45 minutes exam. Mix of multiple choice, short and long answer.	**Media – Animations** -Add, delete, and move objects - Scale and rotate objects - Use a material to add colour to objects -Add, move, and delete keyframes to make basic animations - Create useful names for objects - Join multiple objects together using parenting - Play, pause, and move through the animation using the timeline -Apply different colours to different parts of the same model - Use edit mode and extrude - Use loop cut and face editing -Use proportional editing - Use subdivision - Use the knife tool -Add and edit set lighting - Compare different render modes	Lesson material on Teams Educake

		Data Science -Define data science - Explain how visualising data can help identify patterns and trends in order to help us gain insights - Use an appropriate software tool to visualise data sets and look for patterns or trends -Evaluate findings to support arguments for or against a prediction - Recognise examples of where large data sets are used in daily life - Select criteria and use data set to investigate predictions -Define the terms 'correlation' and 'outliers' in relation to data trends - Identify the steps of the investigative cycle - Solve a problem by implementing steps of the investigative cycle on a data set - Use findings to support a recommendation -Create a data capture form - Identify the data needed to answer a question defined by the learner - Identify the steps of the investigative cycle -Apply data cleansing techniques to a data set - Describe the need for data cleansing - Visualise a data set -Analyse visualisations to identify patterns, trends, and outliers - Draw conclusions and report findings	