YEAR 8 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

RE	A 45-minute exam Questions will test students on: Knowledge Understanding Evaluation	**Year 8-We have learnt... We are learning...** **Last half term we learnt** 1. Creation accounts one and two. 2. Astrology and the Christian relationship with the stars. 3. Christian Scientist- Father George Lemaître and Charles Darwin. 4. The Fall, relationship between women and men. 5. Literal and Liberal interpretations. 6. Dominion and Stewardship, 7. Fair Trade. 8. St Francis of Assisi. 9. Canticle of the Sun. **This half term we are learning about...** 1. Prophecy and Prophets. 2. Jonah. 3. Elijah 4. Isaiah 5. John the Baptist. 6. Salvation and Jesus. 7. False prophecy in El Slavador. 8. Oscar Romero. 9. The Fulfilment of Prophecy. 10. Advent 11. Jesse Tree	Notes in RE exercise books
History	A 45 minute exam Knowledge questions Source skills Extended writing	**Black British History until 1900** - Black Romans - Black Tudors - Black Brits in the Georgian era - Freetown and Sierra Leone - **Jack the Ripper:** - Why was there crime in Whitechapel? - The victims - Why was Jack the Ripper never caught?	- Your exercise book - Exam technique PowerPoint on Microsoft teams and practice questions - Useful links/videos: https://www.youtube.com/watch?v=lbmfAz_BafY https://www.youtube.com/watch?v=_x0KhBVBb2s https://www.bbc.co.uk/programmes/b082w9p9 https://www.bbc.co.uk/programmes/b083bv43 https://www.bbc.co.uk/bitesize/guides/zrx94xs/revision/1 https://www.bbc.co.uk/bitesize/guides/zrx94xs/revision/5 https://www.bbc.co.uk/bitesize/guides/zrx94xs/revision/6 (scroll to 'difficulties in policing Whitechapel) https://www.youtube.com/watch?v=GebS_wKgH5c
English	45-minute exam. Knowledge Questions and Analytical Paragraphs	The Crossover-Context and the Novel	Exercise Book The Crossover Booklet (On Teams)

Art	45-minute exam. To understand how to draw a face in proportion. To apply shading, changing your pencil pressure.	Understanding the structure of the grid method. The facial proportion rules. How to shade with a pencil to create tone.	https://www.youtube.com/watch?v=m21bl53H8nI https://www.youtube.com/watch?v=cdSzAOgSuew
Science	45 minutes exam. Mix of multiple choice, short and long answer.	Working Scientifically: Safety and Equipment; Hypothesis, Variables and Method; Accuracy and Precision; Bar Charts; Line Graphs; Means and Conclusions. Organisms: Gas exchange; Breathing; Drugs; Alcohol; Smoking; Nutrients; Food Tests; Unhealthy Diet; Digestive System; Enzymes Matter: Elements & Compounds; Periodic Table; Atomic Structure; Chemical Equations; Balancing Equations; Metals and non-metals; The elements of Group 1; The elements of Group 7 and 0	Exercise books & BBC Bitesize Tassomai: Quizzes to use are: - Health - Metabolism and Nutrition - Reactivity & Metals - Atoms, Elements and Compounds
Geography	45 minutes exam. Mix of multiple choice, short and long answer.	Geographical Skills and knowledge that are covered in… Tectonic Hazards – Describing the different types of plate boundary (constructive, destructive, collision and conservative). – Explaining how convection currents work in the Earth's mantle. – Describing the distribution (spread) of earthquakes and volcanoes around the World. – Impacts of an earthquake on people. Africa – Describing the location of different countries of Africa using compass point, longitude, and latitude. – Describing the features of a tropical storm. – Identifying primary and secondary effects of Cyclone Idai on people and the environment in Mozambique. – Describing different landscapes found in Virunga National Park – Creating a line graph to show changes to a country's population. – Describing the advantages & disadvantages of damming the river Nile. – Explaining the long-term effects of conflict in South Sudan.	Pangea Pop Up – Ted Ed Video. Click Here National Geographic Video about the importance of our oceans. Click Here

| French | 45 minutes exam.

Mix of multiple choice, short and long answer.

<u>Skills:</u>
Reading, Writing, Grammar. | Freetime:
- TV programmes and films
 - Reading
- Internet
- Activities

Social life:
- Self-description
- Social network
- Going out
- Events

Travel and tourism:
- Focus on Paris (landmarks, activities, opinion)
- Formulating questions
- Past events

Grammar points:
- Past (**j'ai** mang**é**, **je suis** arriv**ée**)
- Present (je mange)
- Future (Je **vais** manger) | Memrise
-> Studio rouge

https://app.memrise.com/group/506141/ |
| Spanish | 45 minutes exam.

Mix of multiple choice, short and long answer.

<u>Skills:</u>
Reading, Writing, Grammar. | My holidays:
- Narration of a past holiday (where, what, who with, why)
- Holidays destinations
- Opinions
- Preferences
- Preferences in the past

All about my life:
- Mobile technology
- Series
- TV programs

Going out or at home:
- Going out
- Favourite food
- Mealtimes
- Ordering food | *https://quizlet.com/subject/spanish*

http://www.bbc.co.uk/languages/spanish/mividaloca/

https://radiolingua.com/coffeebreakspanish/

Teams where all the lessons can be accessed. |

Portuguese	45 minutes exam.
	
	Mix of multiple choice, short and long answer.
	
	<u>Skills:</u>
	Reading, Writing, Grammar.
		About me :
		  - Birthday and festive days
		  - Daily Routine
		  - Mealtimes
		  - Travelling preferences
		  - spending money
		  - hobbies and activities
		  - Travelling and weekend plans
		Key Grammar
		Previous elements + Extended sentences, Justification Simple Present /
		Expressing Preferences
		Key Vocabulary (complete list available in the Specification cf. right column)
		Freetime - cinema, computador, Internet...
		Shopping - Compras, loja, roupa...
		Travelling - viajar, férias, avião, praia...
		Family - pai, mãe, filho....
		Physical appearance - alto, baixo, loiro, moreno,
		Festive Days - Natal. aniversário
			Teams Year 08 group
			
			[Practise Activities and Weekly Assignments for Revision](#)

Computing	45 minutes exam. Mix of multiple choice, short and long answer.	**Vector Graphics** -Draw basic shapes (rectangle, ellipse, polygon, star) with different properties (fill and stroke, shape-specific attributes) - Manipulate individual objects (select, move, resize, rotate, duplicate, flip, z-order) -Combine paths by applying operations (union, difference, intersection) - Manipulate groups of objects (select, group/ungroup, align, distribute) -Convert objects to paths - Draw paths - Edit path nodes -Combine multiple tools and techniques to create a vector graphic design -Explain what vector graphics are - Provide examples where using vector graphics would be appropriate -Complete a summative assessment **Computing Systems** -Explain the difference between a general-purpose computing system and a purpose-built device - Recall that a general-purpose computing system is a device for executing	Lesson material on Teams Educake

| | | programs
 - Recall that a program is a sequence of instructions that specify operations that are to be performed on data
 -Describe how the hardware components used in computing systems work together to execute programs
 - Describe the function of the hardware components used in computing systems
 - Recall that all computing systems, regardless of form, have a similar structure ('architecture')
 -Analyse how the hardware components used in computing systems work together to execute programs
 - Define what an operating system is, and recall its role in controlling program execution
 -Describe how hardware is built out of increasingly complex logic circuits
 - Describe the NOT, AND, and OR logical operators, and how they are used to form logical expressions
 - Recall that, since hardware is built out of logic circuits, data and instructions alike need to be represented using binary digits
 - Use logic gates to construct logic circuits, and associate these with logical operators and expressions
 -Associate the use of artificial intelligence with moral dilemmas
 - Describe how machine learning differs from traditional programming
 - Describe the steps involved in training machines to perform tasks (gathering data, training, testing)
 - Identify examples of artificial intelligence and machine learning in the real world
 - Provide broad definitions of 'artificial intelligence' and 'machine learning'
 -Explain the implications of sharing program code | |