

Year 7: Subject Curriculum Outline

Year 7 Subjects Term One	Term Two	Term Three	Term Four	Term Five	Term Six
Statistical Enquiry Students should be able to: Find mode, mean & range for both ungrouped and grouped data and make comparisons. Display discrete data effectively in diagrams e.g. bar charts & pie charts. Choose the most appropriate average to use. Explain why a graph or chart could be misleading. Integers, powers & roots Students should be able to: Use vocabulary of primes, factors, multiples, HCF & LCM Identify factors, calculate multiples, and find prime numbers Know square numbers to 10² and cube numbers to 5³, and find square roots (up to V100) Perform prime factor decomposition (under 100) Use index notation (squares, cubes, powers of 10) and apply index laws for multiplication/division Know that any number to	Calculations & accuracy Students should be able to: Add, subtract, multiply, and divide whole numbers and decimals Use mental and calculator methods, estimate answers, and check using inverses Recall times tables to 12×12 and use related division facts Apply place value, decimal notation, and identify the value of digits Compare, order, and round numbers (to decimal places, significant figures, or powers of 10) Use brackets, follow order of operations, and apply divisibility rules Multiply/divide by powers of 10 and work with large numbers in standard form Solve problems involving money Use efficient calculator strategies Area & Perimeter Students should be able to: Derive and use area formulas for triangles, parallelograms, and	Simplifying & substitution Students should be able to: Understand key algebraic terminology (term, expression, equation etc). Substitute positive integers into simple formulae expressed in words Understand and simplify expressions with one or two steps the 4 operations and negative numbers. Write and use expressions involving powers. Expand single brackets. Write and simplify algebraic expressions and formulae using brackets and division. Factorise simple expressions. Lines, angles and shapes Students should be able to: Identify properties of shapes and use correct angle and length notation Estimate angles Know and apply angle facts: angles on a line (180°), around a point (360°), and in triangles/quadrilaterals Derive and use angle	Fractions, decimals & percentages Students should be able to: Use all four operations with fractions, decimals, and mixed numbers Simplify, find, and convert between equivalent fractions, decimals, and percentages Express one quantity as a fraction or percentage of another Find fractions and percentage increase/decrease Use percentage multipliers and perform conversions (improper ←→ mixed fractions) Order and compare fractions, decimals, and percentages Calculate with and without a calculator as appropriate Ratio & Proportion Students should be able to: Simplify ratios, including those with different units, decimals, or fractions Express ratios in simplest form, including 1:n and three-part ratios	 Volume & Surface area Students should be able to: Calculate the volume of cubes and cuboids. Calculate the volume of 3D solids made from cuboids. Solve volume problems. Sketch nets of 3D solids. Draw 3D solids on isometric paper. 	Sequences Students should be able to: Describe and generate sequences using term-to-term rules Find the next term in a sequence, including with negative values Recognise and use special sequences (triangular, square, cube, Fibonacci) Understand key sequence terminology (e.g. term) Describe and apply simple functions in words Identify term-to-term rules and patterns from diagrams or practical contexts Measures Students should be able to: Solve problems in everyday contexts involving measures. Convert between



indicators, such as litmus

and universal indicator,

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	Understand and interpret numbers in standard form	 Calculate areas of compound shapes using rectangles and triangles Find the surface area of cubes and cuboids 	 including regular and irregular Use interior and exterior angle relationships to find missing angles and number of sides Recognise and use key angle types in parallel lines (corresponding, alternate, co-interior) Identify parts of a circle Tessellate simple polygons 	 Use the unitary method to solve ratio problems and find missing parts Divide quantities in a given ratio and write ratios as fractions Apply ratios to best value problems and currency conversions Read, interpret, and construct scale drawings and maps using various scales 		
	Cells Core Knowledge:	Forces Core Knowledge:	Elements, atoms and compounds	Reactions Core Knowledge:	Reproduction Core Knowledge:	Space Core Knowledge:
Science	 Introduced to cells as the building blocks of all living organisms and learn the structures within animal and plant cells. Learn how to use a light microscope to observe cells and other small structures. Explore the adaptations of specialised cells. Learn about the process of diffusion by which 	 Distinguishing between contact forces and non-contact forces Understanding equilibrium and how unbalanced forces affect motion and acceleration. Exploring how materials stretch under force, the concept of elastic limits, and the linear relationship between force and extension for springs. 	 Core Knowledge: Introduced to the concepts of atoms, elements, molecules, and compounds, Use knowledge of particles to start naming molecules and compounds and writing chemical symbols and chemical formulae. Sound Core Knowledge: 	 Understand that chemical reactions can be represented using word or symbol equations. Learn that reactions can be exothermic (release heat) or endothermic (absorb heat). Explore different types of chemical reactions, including oxidation, combustion, and decomposition 	 Understanding the changes during adolescence and the structure and function of the male and female reproductive systems Exploring the stages of the menstrual cycle and methods of contraception, including their roles in controlling reproduction. Learning the structure of flowers including the 	 Explore some of the celestial objects that can be seen in the night sky and apply this knowledge to explain the phases of the Moon and eclipses. Understanding of how the planets in our Solar System formed. Learn why seasonal changes occur in the UK and other regions on Earth.
	substances move into and out of cells. • Study the unicellular organisms, euglena, and amoeba. Particles Core Knowledge: • Learn how to use the particle model to explain the properties of substances in the three	Structure and function of body Core Knowledge: • Understand that Multicellular organisms are organised into cells → tissues → organs → organ systems → organism. • Explore how the	 Introduces longitudinal and transverse waves and looks at what happens when waves meet each other or hit a barrier. Explore sound waves in more detail including what mediums sound waves can travel through, and how they are 	Light Core Knowledge: Explore some properties of light and how light travels Learn about the behaviour of light in different situations where light interacts with matter, such as	processes of pollination, fertilisation, seed dispersal and germination.	Acids and Alkalis Core Knowledge: Understand that acids and alkalis are chemical opposites and their strength is measured using the pH scale (less than 7 is acidic, 7 is neutral, more than 7 is alkaline). Explore how to use

detected by the ear and

microphone.

reflection, refraction, and

dispersion.

substances in the three

states of matter.

respiratory system

enables gas exchange



	 Exploring processes like melting, boiling, freezing, and sublimation, alongside the energy changes involved. Understand the concept of density and diffusion and the factors that affect them. Consider the roles of skeleton, including looking in detail as its role in movement through the study of joints and antagonistic muscles 	Understand how the amplitude and frequency of a sound wave affects its loudness and pitch.	Compare how the eye and the camera work.		help determine pH of a substance Explore the reactions between acid and metals and bases, called neutralisation reactions including what salt is produced.
English	Transition unit: Introduction to the Gothic Core knowledge/content: Students will be introduced to the Gothic conventions a range of short stories, poetry and creative writing. Key conventions include: the supernatural, science vs. religion, death and decay, atmosphere and setting, madness. Literary and historical context for the Gothic to be covered and applied to a range of texts. Skills: Students will learn to apply context, analyse language/structure, read for meaning and develop their creative writing (all threshold concepts to be covered).	Literary Heritage: Dracula Core knowledge/content: Students will study Bram Stoker's novel, Dracula, transfer their knowledge of the Gothic full literary heritage text. Context specific to this text will be applied. Skills: Students will continue to identify Gothic conventions, apply context, analyse language/structure, read for meaning and write creatively (all threshold concepts to be covered).		Shakespeare: Hamlet Core knowledge/content: Students will study Hamlet to transfer their knowledge of the Gothic to a drama text. Skills: Students will continue to identify Gothic conventions, apply context, analyse language/structure, read for meaning and write creatively (all threshold concepts to be covered).	Core knowledge/content: Students will be introduced to different aspects of studying film including use of costume, props and camera angles. They will watch The Lion King, Hotel Transylvania and clips from other films to explore how the Gothic is presented in film. Skills: Students will continue to identify Gothic conventions, analyse language/structure, read for meaning and write creatively (all threshold concepts to be covered).
History	Skills in History (weeks 1 & 2) Equip students with historical thinking skills to analyse evidence, construct arguments, and evaluate causes and consequences. Core knowledge: Essay writing and argument development Usefulness and inference from sources Cause, consequence, change, and continuity Chronological understanding Crisis of 1066 and Norman Conquest (until Christmas)	Medieval Life and Religion Explore the nature of medieval society, the importance of religion, and life in towns and the countryside. Core knowledge: Structure of medieval society Role of the Church	The Black Death and Peasants' Revolt Investigate the impact of the Black Death and the causes and consequences of the Peasants' Revolt. Core knowledge: Causes, symptoms, and effects of the Black Death	The Tudors and the Reformation Examine the reigns of key Tudor monarchs and the religious changes of the period. Core knowledge: • Henry VII and consolidation of power	Elizabethan England Understand the reign of Elizabeth I, the challenges she faced, and aspects of Tudor life. Core knowledge: Key features of Elizabeth's reign Religious settlement and threats



Respect for Self | Respect for Others | Respect for Learning

	and how the Normans established control.		 Conditions in medieval towns Thomas Becket and the Church–State conflict 	 Impact on society and economy Causes and events of the Peasants' Revolt Role of key individuals 	 Henry VIII's break from Rome and dissolution of the monasteries The reigns of Edward VI and Mary I The impact of the Reformation on England 	 Daily life in Tudor England Exploration and culture
Geography	Rivers - Understand the physical processes, ecosystems, and human interactions that shape and are influenced by river systems Core knowledge: - Introduction to physical geography - The water cycle - Drainage basins - River processes - River features and landforms	Where in the World - Spatial organisation and map skills. Core knowledge: - Introduction to human geography Continents - Oceans - Countries - Cities Longitude and latitude	Map Skills - Interpreting, analysing, and creating maps for understanding spatial relationships. Core knowledge: - Types of map - Map symbols and keys - Compass directions - Scale - Grid references	Settlements - Examine patterns, functions, development, and interactions with the environment and society. Core knowledge: - Urban vs rural areas - Types of settlements - Greenfield vs Brownfield sites - Patterns of settlements - Settlements - Settlement functions - Urbanisation	- Understanding atmospheric processes, weather patterns, and their impacts on the environment and human activities Core knowledge: - Difference between weather and climate - elements of weather - weather instruments and data collection - types of clouds - types of rainfall - weather in the UK - weather forecasting	Crime - Analysis of the spatial patterns, causes, and impacts of criminal activities and their relationship with social and environmental factors. - Core knowledge: - What is crime? - patterns of crime - factors influencing crime - types of crime - mapping crime - impacts of crime - crime prevention - link between crime and geography
PSHE	Who am I? and cultural diversity. A focus on personal safety in and outside of school, including how to administer first aid and perform CPR.	This unit focuses on exploring careers through Unifrog, teamwork and enterprise skills, and raising aspirations as student think to the future. Financial decision making	We explore the impact that prejudice, bullying and gender stereotypes have on society and how to overcome these.	We explore a current topic set by Northamptonshire Police. Students learn to research, collate information, present and answer questions on their idea.	We explore the importance of healthy routines, influences on health, puberty, unwanted contact, and Female Genital Mutilation.	Students explore the importance of selfworth, romance and friendships (including online) and how to set relationship boundaries.



Ethics and Philosophy	 Who am I? Questions about God What do people in the UK believe? Does religion cause seperation? Are symbols part of our identity? Core Knowledge: Understanding of personal identity How major religions view God Awareness of religious diversity Key ideas of tolerance, inclusion and prejudice 	Festivals Diwali Chirstmas Easter Vaisaki Eid Holi Pesach Rosh Hashanah Core knowledge Common themes across religions Shared values Universal human experience Intercultural understanding Empathy and appreciation	 Did the Historical Jesus exist? Miracles of Jesus Images of Jesus Jesus: faith in action What did justice mean to Jesus Core knowledge Historical versus	Sikhism Guru Nanak Gurdwara Seva Heroines and martyrs Core knowledge Religious literacy Cultural awareness and respect Critical thinking Personal growth and character building	 Should animals be kep 	ally justifiable? ken if you don't agree with it? t in zoos animals for medical purposes ive
Languages	 Discovering the Language Learning key sound patterns and how to introduce yourself in another language. Core Knowledge: Understanding phonetics and the alphabet. Saying your name, age birthday and if you have pets. Asking topic questions. Talking about your origins and nationality. Using the key verbs 'to have' and 'to be'. Understanding gender and adjectival agreement. 	 My hobbies Talking about our interests in detail. Expressing preferences with extended sentences. Core Knowledge: Further practice on phonics – reading aloud tasks. Talking about free time activities. Giving opinions on activities with reasons. Saying what sports and activities we do according to the weather. Understanding how to use and conjugate present tense regular verbs. Using key irregular verbs. 	 My family and friends Describing ourselves and others in detail. Core Knowledge: Further practice on phonics – reading aloud practice. Saying who is in your family and who your friends are. Using larger numbers (40-100) other people's age and birthdays. Using possessive adjectives like 'my', 'your' and 'his/her'. Describing my personality/appearance as well as someone else's. Practising the verbs 'to have' and 'to be'. 	 Where I live Describing our home and town in two time frames (present and future tenses). Core Knowledge: Further practice on Phonics. Saying where you live. Describing and expressing opinions on your house. Describing and expressing opinions on your town (amenities). Talking about your future plans and what you are going to do in town. Understanding how to use and conjugate key verbs into the near future tense. 	 My life at school Giving details and expressing extended opinions on key aspects of school life. Core Knowledge: Further practice on Phonics. Describing your timetable. Telling the time. Giving justified opinions on your school subjects. Describing the school facilities. 	 Embracing diversity Being globally aware and culturally sensitive, understanding and respecting diverse traditions and customs. Core Knowledge: Reinforcing phonics. Reinforcing and Consolidating key grammar aspects covered over the year. Exploring the French/Spanish speaking world. Analysing and reviewing a French/Spanish film.



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	Theme: Manmade objects - focusing on tools in a tool box.	Theme: Manmade objects - focusing on tools in a tool box.	Theme: Natural Forms - focusing on shells.	Theme: Natural Forms - focusing on shells.	Theme: Natural Forms - focusing on shells. Artists Links: Repeat pattern	Theme: Culture, animals and symbolism	
Art	Artist Link: Jim Dine Core Knowledge: Observation drawing skills using; lines, shapes, tone and textured mark making. Media and techniques; pencil, graphite sticks, rubbers, frottage, stencils.	Artist Link: Michael Craig-Martin Core Knowledge: Composition exploration; mixing up use of lines, shapes and textures. One piece using neutral tones the second exploring the use of colour. Media and techniques; pencil, graphite sticks, rubbers, frottage, wax resist	Core Knowledge: Observation drawing skills using; lines, shapes, tone and textured mark making. Composition exploration; using shapes, textured marks and natural organic patterns Media and techniques; pencil, graphite sticks, rubbers	Core Knowledge:. Composition exploration; using shapes, textured marks and natural organic patterns. Colour theory; warm and cold colours. Tints. Media and techniques; Painting with ready mix to blend colours and define pattern and texture detail. Fine liner.	artists - William Morris and others	Artists Links: Aboriginal or other selected culture. Core Knowledge:. Use of symbolic marks and imagery. Media and techniques; Using a combination of media tried throughout the year plus; pencil crayons and water colours.	
Dance			Dance curriculum is	delivered through m	odules in PE		
	Single lessons: Component 3 performance of 2 extracts fro designer or performer.	- Text in Performance - m a published play as either a	Part 1: Final Rehearsals and P Text in Performance - End of J External Exam	erformance of Component 3 - January/Early February	Revision: Part 1: Revision of S 80 Days by Jules Verne and M Professional roles in theatre a	Iultiple choice questions on	
Drama	 Core Knowledge: Work collaboratively to generate, develop and communicate ideas Develop a range of theatrical skills and apply them to create performance as a performer or designer Ability to set aims and intentions 		 Core Knowledge: Work collaboratively to generate, develop and communicate ideas Develop a range of theatrical skills and apply them to create performance as a performer or designer Ability to set aims and intentions 		 Core Knowledge: explore performance texts, understanding their social, cultural and historical context including the theatrical conventions of the period in which they were created Apply practical ideas in a written context 		
	Double lessons: Revision of S	et Text - Around the World in	Part 2: Revision of: Theatre Ro	eview - analysis of live theatre	Part 2: Revision of: Theatre Review - analysis of live theat		

Double lessons: Revision of Set Text - Around the World in 80 Days by Jules Verne

Core Knowledge:

- explore performance texts, understanding their social, cultural and historical context including the theatrical conventions of the period in which they were created
- Apply practical ideas in a written context

preparation for written exam.

Core Knowledge:

- Knowledge of Drama and Theatre
- Analysis and evaluation of the work of live theatre makers

Part 2: Revision of: Theatre Review - analysis of live theatre Part 2: Revision of: Theatre Review - analysis of live theatre preparation for written exam.

Core Knowledge:

- Knowledge of Drama and theatre
- Analysis and Evaluation of the work of live theatre
- develop an awareness and understanding of the roles and processes undertaken in contemporary professional theatre practice



	Keyboard Skills:		Folk Music	Gamelan Music	African Music	
	music and basic note reading (pitch and rhythm) fea Core Knowledge: De Identifying pitch (treble clef) Identifying simple on beat rhythms Understand the basics of each element of music, e.g. pitch - highlow, dynamics - loud/soft, tempo -		Learn about contextual information and the stylistic features of Folk Music Develop performance skills, particularly accuracy and	Learn about contextual information and the stylistic features of Gamelan music Develop ensemble performance skills	Learn about contextual inform of African singing and African I Develop control when singing Develop drumming techniques	in multiple parts
			timing. Core Knowledge:	Compose a cyclic piece based on Javanese Gamelan	Core Develop: • Develop a strong under	rstanding of rhythm and
Music			 Understand where folk music comes from and the way it is constructed. Play/sing simple folk melodies by ear and from notation. Develop collaboration and arrangement skills. Can perform in time with others 	 Understand where Gamelan music comes from and the way it is created. Play simple parts on a variety of pitched percussion instruments. Develop ensemble performance skills (timing/accuracy) 	timing. • Create music in an African style Develop ensemble performance skills (Timing and Accuracy	
Computer Science	E-Safety: This module teaches our pupils how to stay safe online by creating strong passwords, recognising and avoiding social-engineering scams, identifying social-media threats, using AI tools responsibly, and confidently presenting their learning in an engaging, ageappropriate way. Core Knowledge: Strong passwords Social Engineering Social Media	Programming (Makecode): In this Programming (MakeCode) module, pupils will master the MakeCode interface, code and animate sprites, add collision-based events, create scoring and win/loss mechanics, customise graphics, and ultimately design and present a unique video game of their own. Core Knowledge: • Event-driven programming • Loops • Variables	Computer Systems and Networks: Pupils will discover what a computer system is, learn the input-process-output- storage model, explore key hardware such as the CPU, RAM, storage devices and peripherals, distinguish between system and application software (including operating systems), compare primary and secondary storage from hard drives to the cloud, and understand how hardware	Algorithms, Data Representation and Logic: In this module, Year 7 pupils will build early algorithmic thinking by learning why computers use binary, converting between decimal, binary and hexadecimal, performing binary arithmetic, and discovering how text, images and sound are encoded (through ASCII, pixel grids and real-world hexadecimal colour codes) so they understand how data is stored and processed.	Programming: • In this Programming with Micro:bit module, our Year 7 pupils will set up the device, code LED displays, use buttons, sensors and sound, apply loops, conditions and variables, and then bring everything together to design and present their own interactive digital project. Core Knowledge: • Basic electronics • conditional logic • sensors • inputs/outputs.	Ethical, Environmental, Legal, Future Tech In this Ethical, Environmental and Future Technology module, our Year 7 pupils will explore the lifecycle of digital devices, the legal and ethical challenges of e- waste, energy use in data centres, and discover how green computing and emerging technologies can drive sustainable solutions to climate change. Core Knowledge: • Critical thinking



 Safe online behaviour Presentation skills Creating for a target audience Safe use of Al 	 Sprites Basic debugging 	and software work together to make technology function. Core Knowledge: Identifying hardware components Understanding software types Recognising the interaction between hardware and software.	converting between number systems • Binary arithmetic • Recognising real-world applications of data representation.		 Research Data analysis Presenting findings 	
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Year 7: Design Technology Curriculum

NB: Specialisms are taught on a rotating basis so students will experience each specialism at differing points of the year									
Food	Graphics	Textiles	Timbers						
Food Project: Making a range of dishes using different ingredients and use of different equipment. Practical Skills: Developing basic knife skills. Learning how to use cooking equipment safely and hygienically. Practicing basic cooking techniques like chopping, measuring, and using different heat sources. Fruit salad; croque monsieur; pasta salad; cheesy scones; Victoria sponge cake. Introduction to food preparation, cooking and nutrition Washing up Basic cooking skills. Core Knowledge: Personal Hygiene Knife skills (claw or bridge technique) Using equipment (hob, grill, oven	 Introduction to the design process - Research, Specification, Design Ideas, Planning, Manufacture, Evaluation. Introduction to H&S in a Graphics classroom - Safe use of knives and hazard awareness. Core Knowledge Careers in graphics, product analysis/ mood board. The use and text and how to incorporate it into a design. Box, V-fold and flower mechanisms. Embossing, die cutting and cutting by hand Paper construction of a product. 	 Introduction to the design process - Research, Specification, Design Ideas, Planning, Manufacture, Evaluation. Introduction to H&S in a Textiles classroom - Safe use of sewing machines, sharp equipment and hazard awareness. Core Knowledge Using a sewing machine, following different guides, When and how to use straight and zig zag stitches, Applique with ribbon, Machine embroidery, Hand embroidery, threading a needle, Inserting zips Understanding what a seam allowance it and how to accommodate in within the design, Construction of pencil case. 	 Timbers - Flower Holder Introduction to the design process - Research, Specification, Design Ideas, Planning, Manufacture, Evaluation Introduction to H&S in the workshop - Safe use of hand tools and machinery, Hazard awareness Core Knowledge Product Analysis 1 Pt Perspective Rendering Annotation Marking out Hand tool skills 						



Year 7: PE Curriculum

Year 7 Subjects	Team games	Striking & Fielding	Athletics	Fitness	Racquet Activities	Swimming	Gymnastics	Dance	OAA
	Activities Covered:	Activities Covered:	Activities Covered:	Activities Covered:	Activities Covered:	Activities Covered:	Activities Covered:	Activities Covered:	Activities Covered:
	Netball / Basketball / Football Core Knowledge	Cricket / Rounders Core Knowledge	Athletics / Sports hall Athletics Core Knowledge	Fitness Testing Core Knowledge	Badminton / Table Tennis / Tennis Core Knowledge	Strokes / Water Polo / Water safety Core Knowledge	Gymnastics Core Knowledge	Dance / Cheerleading Core Knowledge	Team Building Orienteering Core Knowledge
Physical Education	Basic Skills Tactics and Teamwork Rules and Fair Play Fitness and Physical Literacy	Basic Skills Tactical Awareness Rules and Scoring Teamwork and Communication. Evaluation and Improvement	Fundamental Skills Techniques and Safety Rules and Measurements Fitness Components Self-Assessment and Improvement	Components of Fitness Exercise Types Health Benefits Training Principles Self-Monitoring	Basic Skills Movement and Positioning Rules and Scoring Tactics and Strategy Fair Play and Communication	Basic Techniques Breathing and Body Position Safety Skills Endurance and Fitness Evaluation and Improvement	Basic Skills and Movements Technique and Control Sequence Creation Safety and Equipment Evaluation and Improvement	Movement and Technique Choreographic Skills Expressive Qualities Performance and Collaboration Evaluation and Refinement	Basic Skills Teamwork and Communication Problem-Solving and Decision Making Safety Awareness Physical and Mental Challenge