Bloxwich Academy
'Be The Best You Can Be'

Curriculum Framework Overview Year 5

Curriculum Drivers

Culture – growth mindset, high standards, aspirational **Diversity** – celebrating the diversity of the community with strong PSHE and SMSC curriculums
Environment – independent learning, extensive vocabulary, incidental learning, developing cultural capital

Term	Autumn	Spring	Summer
PSHE	Dreams & Goals Being me in my World	Healthy Me Celebrating Difference	Relationships Changing Me
School Values and Attributes	Being the best you can be Law Abiding	Open Minded High Expectations We are a telling school	Independent Caring & Understanding Helpful & Respectful
Employer encounters links to topic	Astronomer Aerospace Engineer Mechanical Engineer Climate Scientist Historian Archaeologist Museum Curator Industrial Engineer	Archaeologist Art Historian Playwright Director Biologist Ecologist Architect Programmer	Graphic Designer Visual Effects Artist Chemical Engineer Environmental Scientist Agricultural Scientist Farmer Photographer Athlete
Diversity & Inclusion			
Topic Titles	**Dynamic Dynasties**	**Groundbreaking Greeks**	**Sow, Grow and Farm**
Reading Whole Class Text	Dragon Mountain	Harry Potter and the Philospher's Stone	Holes

Mathematics *Number* *Measurement* *Shape* *Statistics*	**Place Value** (Roman numerals to 1,000, numbers to 10,000, 100,000 and 1,000,000, powers of 10, 10-100,000 more or less, number line to 1 million, compare and order numbers, round to the nearest 10, 100 or 1,000) **Addition and Subtraction** (mental strategies, add and subtract whole numbers with more than 4-digits, round to check answers, multi-step addition, compare calculations, find missing numbers) **Multiplication and Division** (multiples, common multiples, factors, common factors, prime numbers, square numbers, cube numbers, multiply and divide by 10, 100 and 1,000) **Fractions** (find equivalent fractions, convert improper fractions to mixed numbers, convert mixed numbers to improper fractions, compare and order fractions less than 1, add fractions within 1, add and subtract fractions with the same denominator, add to a mixed number, subtract from a mixed number, subtract two mixed numbers)	**Multiplication and Division** (multiply up to a 4-digit number by a 2-digit number, solve problems with multiplication, short division, divide a 4-digit number by a 1-digit number, divide with remainders, efficient division, solve problems) **Fractions** (multiply a unit fraction by an integer, multiply a non-unit fraction by an integer, multiply a mixed number by an integer, calculate a fraction of a quantity, fraction of an amount, find the whole, use fractions as operators) **Decimals and Percentages** (decimals up to 2 decimal places, equivalent fractions and decimals - tenths and hundredths, thousandths as fractions and decimals, place value chart, order and compare decimals, round to the nearest whole number and 1 decimal place, understand percentages as fractions and decimals) **Perimeter and Area** (perimeter of rectangles, perimeter or rectilinear shapes, perimeter of polygons, area of rectangles, area of compound shapes, estimate area) **Statistics** (draw line graphs, read and interpret line graphs, read and interpret tables, two-way tables, read and interpret timetables)	**Shape** (understand and use degrees, classify and estimate angles, measure angles up to 180, draw lines and angles, calculate angles around a point and on a line, lengths and angles in shapes, regular and irregular polygons, 3-D shapes) **Position and Direction** (read and plot coordinates, problem solving, translation with coordinates, lines of symmetry, reflection) **Decimals** (add and subtract within1, add and subtract decimals with the same and different number of decimal places, efficient strategies, decimal sequences, multiply and divide by 10, 100 and 1,000, missing values) **Navigate Numbers** (understand negative numbers, count through zero in 1s and multiples, compare and order negative numbers, find the difference) **Converting Units** (kilograms and kilometres, millimetres and millilitres, convert units of length, convert between metric and imperial units, convert units of time, calculate with timetables) **Volume** (cubic centimetres, compare volume, estimate volume, estimate capacity)
Science	**Forces** (friction, air resistance, parachute experiment, water resistance experiment, explore gravity, use small forces for greater effects) **Space** (the solar system, planets, modelling, motion of the Earth and planets, planet Earth, the solar system – ideas over time, night and day, the Moon) **Global Warming**	**Properties of Materials** (magnetic, transparency, hardness, electrical conductivity, insulating heat experiment, uses of everyday materials – plastic, wood and metal) **Animals Including Humans** (the human life cycle, babies and children, adolescence and puberty, adults and the elderly, gestation periods of mammals, gestation periods and lifespan) **Life Cycles**	**Reproduction A** (sexual reproduction in animals, reproductive parts in plants, pollination, asexual reproduction, cloning plants) **Reversible and Irreversible Changes** (dissolving, separate materials, filtering and sieving, solutions and evaporation, reversible changes, irreversible changes) **Plastic Pollution**

	(What is the impact of global warming? What is the impact on living things?)		(life cycles of mammals, life cycles of amphibians, life cycles of insects, life cycles of frogs)		(What is plastic pollution and what are the impacts on the planet?)	
Computing	Computing Systems and Networks *Systems and Searching*	Creating Media *Video Production*	Programming *Selection in Physical Computing*	Data and Information *Flat-file Databases*	Creating Media *Vector Graphics*	Programming *Selection in Quizzes*
History / Geography	Dynamic Dynasties (dig at Yinxu, oracle bones, religion in the Shang Dynasty, significance of bronze, jade and silk, power and hierarchy, everyday life, warfare, Fu Hao, the end of the Shang Dynasty, bronze ages around the world) Investigating our World (ordnance survey maps, contour lines, map grid squares, time zones, climate zones, vegetation belt, biomes, human geography, world cities, sustainable manufacturing processes, relative locations and distances, transport networks, settlement hierarchy.)		Groundbreaking Greeks (geography of Greece, sources of evidence, Minoan civilisation, comparing the Minoans and Mycenaeans, the dark age and Archaic period, city states, democracy in Athens, roles of men and women, social hierarchy, significant Athenians, the Acropolis)		Sow, Grow and Farm (allotment habitat, animal life cycles, plant life cycles, dissection, growing, seasonality, dig for victory, farming in the UK, mapping using grid references, a farmer's year, impact of modern farming, potato farming in Jersey, still life, climate zones, North and South America, citrus farming in California, coffee growing in Peru, how far food travels, importing food)	
Art & Design / Design and Technology	Taotie (taotie motifs, ancient and contemporary casting methods) Tints, Tones and Shades (mixing tints, shades and tones, landscapes, sketching landscapes, colour theory) Moving Mechanisms (exploring pneumatics, making a pneumatic machine)		Architecture (Greek architecture, support, stiffness and stability, computer-aided design) Mixed Media (papermaking, paper collage, fabric crumb, mixed media, photo collage and surrealism) Expression (significant artist – Edvard Munch, expressionist colour, modern expressionism, express yourself)		Eat the Seasons (benefits of season eating, dicing, peeling and grating) Line, Light and Shadows (significant artist – Pablo Picasso, shading techniques, pen and ink, drawing on black paper, black and white photographs, adding line and tone) Nature's Art (land art, properties of materials, relief forms)	
Religious Education	Committed to a Religion (journey of life, Muslim commitment, wisdom on temptation, Muslims in Britain following their prophet, how did Jesus show commitment and sacrifice, Jesus and sharing of bread and wine, Christian commitment, codes for living, Hindus showing commitment through sewa, Diwali)		Muslims and Christians: Who is Inspiring? (what makes a hero, leaders and followers, Prophet Muhammed (PBUH), making a difference to Muslims' lives, inspiring people to Christians, who is inspiring to me)		Make our Town More Respectful (religions of our region, villages, towns and country, golden and silver rules, is our town typical, how does Mandir help people to worship, church worship, similarities in religions, respect and harmony)	
Physical Education	Hockey		Swimming		Basketball	

	(develop basic fundamental skills, refine their push passing and receiving technique, introduced to the technique of slapping the ball, practise dribbling, develop their ability to utilise space, develop their ability to mark a player) Leadership (looking at what it is to be a leader and the sorts of characteristics and qualities that a good leader needs, investigate and discuss how best to deliver activities, try out popular playground games) Gymnastics (continue practising and improving the quality of fundamental skills, develop the technique for forward and backward rolls, develop forward and backward walk overs) Dance (know the names and definitions of the 6 dance actions, incorporate freeze framing in their performance to tell a story, work cooperatively as part of a group to create a dance)	(learn a range of swimming skills and strokes, perform a tuck float with their face in the water, develop their confidence of going under the water, practise treading water for 15 seconds, swimming a width without stopping, learn a self-rescue technique) Football (develop basic fundamental skills, refine their passing and receiving technique, practise dribbling, develop their ability to dodge, develop their ability to mark a player, develop their ability to shoot further) Tag Rugby (develop the basic fundamental skills of the game, develop their passing focusing on passing on the move and developing power, practise catching and receiving the ball, develop their ability to carry the ball at pace)	(develop the basic fundamental skills of the game, develop different passes focusing on power and accuracy, use the correct footwork when receiving the ball, develop their ability to dribble, develop their ability to dodge and outwit their opponent and mark a player and apply pressure focusing on consistency) Striking & Fielding (practise striking and fielding skills, practise throwing overarm, underarm, catching, bowling and batting, develop their bowling technique, practise long and short barriers when fielding) Tennis (continue practising their rallying skills with a partner, practise forehand and backhand groundstrokes, develop their volleying technique, know the ready position and the benefits) Athletics (focus on improving the quality of their performance, develop throwing and jumping for distance, practise developing the correct grip and generating power by transferring body weight from back foot to front foot, practise long jump and high jump)
MFL (French)	Review of Year 3 & 4 Emotions The Body At the Doctor	Countries and Cities Travel Around the World French in the World	Nationalities and Languages Numbers 50 - 100 Money (Euros) At the Supermarket
Music	Brass Instruments (clarinet, trombone, trumpet) Livin' On a Prayer Bon Jovi	Brass Instruments (clarinet, trombone, trumpet) Make you Feel My Love Adele	Brass Instruments (clarinet, trombone, trumpet) Dancing in the Street Martha & The Vandellas
Cultural Capital Experience	Trip (stadium visit for careers)		
