Class 3 Wonders of the World Mountains Autumn 2 2023 – Essential Knowledge

Geography – Wonders of the World – Mountains: By the end of this unit what should children know?
Know that a mountain is a large mass of earth or rock taller than 610m above the surrounding land. Know the names of Derbyshire mountains (Kinder Scout, Bleaklow).
Identify, describe, and compare mountain features of Derbyshire, the UK and around the world. Mount Everest is well-known because it is the highest mountain in the world located between Nepal and China.
Approximately one fifth of the Earth's surface is covered by mountain ranges (Himalaya, Andes, Rockies, Alps). Our closest mountain range is the Peak District. Mountain ranges in the UK are much lower, less rugged, and more rounded than the largest mountain ranges in the world.
Know the different ways that mountains can be formed (specifically fold mountains). Link this to the formation of Derbyshire mountains, as well as mountains around the world.
Understand what the climate of different mountain peaks is like. Compare the climate of Mount Everest with Derbyshire mountains.
Vocabulary –Altitude, Contour, Crust, Erosion, Fold Mountain, Gorge, Hypothermia, Latitude, Longitude, Peak, Plateau, Ridge, Summit, Terrain, Topography

Science – Light: By the end of this unit what should children know?
Light travels in a straight line. Light travels very, very fast (186,282 miles per second – that is like travelling the world over 7 times in a second.)
If something gets in the way of light, a shadow is formed. The shadow can change size according to the distance away from the light source. Shadow puppet shows use this idea to help them create amazing shows to entertain.
We see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. The image on the retina has been turned upside down because the front of the eye is curved.
How the different parts of our eyes help us to see and how Morley helps us to protect our eyes.
Vocabulary – Absorb, Cast, Concave, Convex, Cornea, Filter, Iris, Lens, Light ray, Optics, Periscope, Prism, Pupil, Refraction, Sclera, Transmission

English – Everest: By the end of this unit what should children know?
Poetry – The features of a metaphor poem. How to write a metaphor poem, thinking about rhyme and rhythm.
Narrative – The features of a journey story. Create a toolkit to plan, compose, edit and redraft their own journey story. Use passive verbs to focus the reader on actions and to create mystery. Use dialogue to convey character.
Non-Fiction – I know the features of an explanation text. Create a toolkit to plan, compose, edit and redraft their own explanation. Use of passive voice and technical vocabulary.
Vocabulary – Active verbs, Action, Characterisation, Dialogue, Metaphor, Passive verbs, Passive voice, Rhythm, Verb tense,

Year 5 Maths - By the end of this unit what should children know?
Multiplication and Division – Understand what a multiple and factor is. Find common multiples and common factors of a number. Know what a prime, square and cube number is. Multiply and divide by 10, 100 and 1000.
Fractions – Identify, name and write equivalent fractions of a given fraction. Recognise mixed and improper fractions and convert from one form to the other. Compare and order fractions. Add and subtract fractions with the same denominator and denominators that are multiples of the same number.
Vocabulary – Common, Convert, Cube number, Denominator, Equivalent, Factor, Improper fraction, Mixed number fraction, Multiple, Non-unit fraction, Numerator, Power of ten, Prime, Square, Unit fraction,

Year 6 Maths - By the end of this unit what should children know?
Addition, Subtraction, Multiplication and Division – Divide numbers up to 4-digits by 2-digits using the formal method of long division. Learn the order of priority for operations in a calculation
Fractions – Use understanding of common factors to simplify fractions to their simplest form. Position fractions on a number line. Compare and order fractions according to their numerator and denominator. Add and subtract any two fractions and mixed numbers.
Fractions –Multiply and divide fractions by an integer. Find fractions of amounts.
Vocabulary – Brackets, Convert, Common factors, Denominator, Efficient, Equivalent, Improper fraction, Integer, Mixed-number fraction, Numerator, Order of operation, Priority, Product, Rounding, Simplify, Strategy,

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Latin - By the end of this unit what should children know?
Use and identify conjunction language: for, because, but, and, although. Identify conjunctions as coordinating or subordinating.
Further develop language and recap on previous: capilli, aures, gemmae, unguentum, diu, Verba
Etymology: verba (verbose – too wordy)
Develop number knowledge from 40 - 70

Music – By the end of this unit what should children know?
Listen to a selection of Gospel music and spirituals and identify key elements that give the music its unique sound.
Talk about pieces using music vocabulary (e.g. the ways the voices are used, the contrasting texture of solo voice and choir, singing in harmony, the lyrics etc.)
Develop and practise techniques for singing and performing in a Gospel style.
Understand which communities sing gospel music in Derby.
Create fragments of songs that can be developed into fully-fledged songs.
Improvise and compose, 'doodling' with sound, playing around with pitch and rhythm to create a strong hook.
Vocabulary – Acapella, Bridge, Call and Response, Congregation, Diction, Legato, Phrase, Riff

RE – What Matters Most to Christians and Humanists? By the end of this unit what should children know?
Describe some Christian and Humanist values.
Express their own ideas about some big moral concepts, such as fairness or honesty comparing them with the ideas of others they have studied.
Apply ideas about what really matters in life for themselves, including ideas about fairness, freedom, truth, peace, in the light of their learning.
Vocabulary – Christianity, Compare, Contrast, Corroborate, Ethics, Humanism, Moral, Values

PHSE – Celebrating Difference: By the end of this unit what should children know?
Accept that everyone is different and there are different perceptions of what 'normal' means. I understand how being different could affect someone's life.
Explain some ways that one person or group can have power over another. Know some of the reasons why people use bullying behaviours and understand how to problem solve.
Give examples of people with disabilities who lead amazing lives (Benjamin Watson, Richard Whitehead – local paralympic athletes).
Vocabulary – Ability, Accolade, Admiration, Assumption, Banter, Belonging, Bullying, Conflict, Difference, Direct, Empathy, Equality Act, Imbalance, Indirect, Normal, Perception, Perspective, Recipient

Design and Technology – By the end of this unit what should children know?
Name and know the features of different types of bridges (Beam, Arch, Truss) and recognise examples of these bridges in Derby (Darley Abbey, Friar Gate, Shelton bridge)
Understand different ways to reinforce structures. Understand how triangles can be used to reinforce bridges.
Understand why material selection is important based on their properties.
Understand the functional and aesthetic properties of wood.
Vocabulary – Aesthetics, Accuracy, Arch bridge, Assemble, Beam bridge, Corrugation, Evaluate, Factors, Hardwood, Joints, Properties, Quality, Reinforce, Rigid, Softwood, Stability, Stiffness, Technique,

Computing - Online Safety: By the end of this unit what should children know?
Identify how and why data is collected from space.
Read and calculate numbers using binary code. Use simple operations to calculate bit patterns.
Represent binary as text.
Vocabulary – Binary, Boolean, Byte, CPU, Data transmission, Hexadecimal, Input, Mars Rover, Numerical data, Output, Radio signal, RAM, Sequence, Signal, Simulation, Technology, Transmit

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Leaders of the Future - By the end of this unit what should children know?
How to acknowledge and celebrate differences.
Anti-bullying leaders of the school. Fire and railway safety ambassadors. Mini leader training.
Reindeer Dash – Raising sponsorship money for a local charity (Treetops Hospice)

Morley Away Curriculum - By the end of this unit what should children know?
Christmas Concert at Morley Hayes. Put together a performance of singing, acting and dancing for the parents.