Medium Term Plan Year 6 Term Spring 2023/2024 Topic Title: Mountains

	Suggested Activities	Enrichment Activities	Writing Opportunities	Numeracy- Application of skills	ICT- Application of skills	Assessment
English	**Genres covered:** Non-chronological reports linked to the circulatory system in science. Diary extracts in role as key characters from class novel. Playscript to recreate key scenes form novel. Adventure based narrative. Biography Persuasion Explanation text – survival guides linked to novel. Explore 'If' and write poems in the style of Rudyard Kipling. **Key texts**: Treasure at the top of the World. **Poetry:** 'If' – Rudyard Kipling	**SPaG:** **Spelling:** Read Write Inc **Punctuation:** Bullet points and revision of KS2 punctuation objectives. **Grammar:** Layout devices (including headings, tables, columns) Subjunctive form **Reading:** Explain the meaning of words in context. Literal Inference Summarise Predict Use of vocabulary Comparisons within and across the text Develop the use of evidence in written responses			Research for biography. Work processing.	
Maths	**Fractions decimals and percentages.** Use all four operations to calculate with fractions, decimals, and percentages. Understanding the relationship between FDP and calculate percentages of amounts including increase and decrease. **Algebra:** solve simple algebraic equations. **Geometry:** properties of 2D and 3D shapes including	Shopping task to calculate percentage increase and decrease. Izac9 - relating FDP . Data handling relating to Everest data.	Reasoning responses.	Links to science – measuring pulse and heartrates. Stop watches. Apply data handling skills to display scientific data.	Timetable Rockstars. Thinking blocks- ratio.	

	measuring and calculating angles. **Statistics:** calculate the mean as an average. Interpret and draw line graphs and pie charts. **Ratio and Proportion** **Measurement:** convert between units of measure for length and weight. **Time:** interpret timetables and calculate time differences.					
Science	**Animals including humans:** Investigate organ systems in animals and humans. Identify and label the main parts of the human circulatory system and describe the functions. Recognise the impact of diet, exercise drugs and lifestyle. Describe the ways in which nutrients and water are transported within animals including humans. **All living things** Describe how living things are classified into broad groups. Give reasons for classifying plants and animals based on specific characteristic.	Learn about the animals living in mountain ranges. Build models of the human circulatory system. Practical activities to make artificial blood. Exercise tasks. Video clips	Non chronological report- circulatory system. Written findings from scientific investigations.	Taking measurements with increased accuracy. Recording data using classification keys, graphs and charts.	Research into Carl Linnaeus. Presenting work and findings on electronic graphs. Tools needed for experiments e.g. stopwatch.	
STEM	Bridge building competition- weight / paper bridges. Test different materials to build a variety of bridges. Which material will make the	Vex Go session		Converting measurements and taking measurements with increased accuracy.		

	strongest bridge? Is there anything that can strengthen your bridge?					
History	**Historical Expeditions** Investigation into the life of Mallory. Use a range of sources of evidence to draw conclusions about the validity of Mallory's expedition. Research previous climbers of major mountains and record breakers. Compare and contrast expeditions to Everest throughout modern history. *(Similarity and difference)*	Orienteering activity- outside on the school yard/ field. Artefacts exploration- links with novel.	Diary entries, letter writing. Biography.	Measurement related to mountains/ time etc. Data analysis. Shape- angles.	Research.	
Geography	**Mountains- human and physical geography** Learn about the formation of mountains- practical activities to create how mountains are made. Investigate climate conditions in various mountain regions. Investigate tourism in various countries and the implications on the local economy. Sustainability. Use and compose 6 figure grid references for areas of significance. Locate significant mountain ranges using geographical features (longitude, latitude etc) and compare the key physical and human characteristics of regions.	Practical activities to explore formation of different mountain types. Mountain climber talk. Fieldwork – observe and gather data about physical and human geography ion the local area.	Instruction writing for climbing activities. Application letters for a mountain expedition.	Conversion graphs. Temperatures linked with global warming. Representing data collected during fieldwork (graphs, charts, tables) Scaling.	Interactive video clips and links. Google Earth	

	Kapow unit- *What is life like in the Alps?* Locate and explore the human and physical geography of the Alps. Identify similarities and differences between an Alpine region and the local area.					
Art	**Make my voice heard.** Explain chiaroscuro and apply it to create light and from in drawing. Exploring art with a message, looking at the works of Pablo Picasso and Käthe Kollwitz and through the mediums of graffiti, drawing, painting, and sculpture, creating artworks with a message.	Visit to art gallery.	Art appreciation. Similarities and differences between artworks and artists.		Online exhibitions and research.	
Music	**Theme and variation** Explore musical instruments naming them ,identifying their orchestral section and discussing what they sound like. Develop rhythm, and pulse and sing with control and confidence.	Listening to orchestra performance. Linking instruments to art.	Appraisal of music from different countries. Personal response to music.	Time. Design own music using symbols and shapes.	Online videos and clips.	
D/T	**Structure: Playgrounds** Design and build a model playground with working model equipment. Cut shape and join materials to complete structures using a variety of techniques.	Links with STEM activities. Visits to local parks – linked to geography mapping and fieldwork.	Instructions. Evaluation of completed structures.	Measurement. Scaling.		

PE	**Athletics** Develop agility, stamina, pace, accuracy, control and strength. **Team Games**- Develop knowledge of tactics to be applied in a range of team game situations. Focus on hockey- develop agility, coordination, pace, stamina. Learn how to pass, control and tackle the ball. Develop an understanding of the rules within the sport.	Links with Science and the impact of exercise and a healthy lifestyle.	Non chronological reports based on health and fitness.	Recording pulse rate and recording. Interpreting graphs.		
RE	**Understanding Christianity** How can following God bring freedom and justice? Explore connections between the story of Moses and the concept of freedom and salvation. Develop a deeper understanding of the 'big story' of the Bible. **Understanding Christianity** What difference does the resurrection make for Christians? Explore Christian concepts of Sacrifice, Resurrection, Incarnation and Hope. Look at how Christians put their beliefs into practice.	Visit to Church. Talk to Reverend Jason.	Written responses.		Online videos.	

PSHCE Me, You and the World	**Operation encompass x3** **Online media** Digital footprint and e safety links. **Relationships** Explore positive relationships. Look at how to maintain good relationships and identify when a relationship is unhealthy. **Friendships/ bullying** Discuss maintaining friendships and different types of bullying.	Links to computing – e safety. Internet safety day activities presented to the rest to the school.	Written responses to tasks. Creating posters/ leaflets linking with e safety and anti-bullying.		Links with e safety curriculum. Online videos. PowerPoint presentations.	
Computing	**Data and information- spreadsheets** Collate data and present using spreadsheets. Format cells and apply formulas to data. **Creating media: 3D Modelling** Design and create a 3D model using computer systems.	Visit to Openzone – Tinkercad and 3D printing.	Word processing opportunities. Invitations and posters- planning event.	Property of 2D and 3D shapes. Accurate measurements and converting units of length.		
French	**French sport and Olympics.** Know and pronounce names of sports. Understand and pronounce words and phrases about sport and construct simple sentences about sports that they like or do not like. Show good understanding of P.E. action verbs and pronounce the words accurately. **French football champions.** Learn and pronounce new words related to football. Deliver an oral presentation.				Interactive videos and songs.	

	Comprehend and interpret player profiles.					
Global links	Explore endangered species- design an awareness campaign involving local radio stations, news boards etc Work with forest school to create bug hotels etc Speak with caretaker about making sure all of our rubbish is 'wildlife friendly' Tourism- Implications of tourism on local areas e.g. economy, environmental factors.		Persuasive letters / posters.		Research Videos and green screen.	
Career links	Al Sylvester virtual visit. Opportunity to discuss expeditions. Safety works visit – discussions with police, fire service, Metro.					