

LKS2 Theme Chart: Mighty Mountains - same-coloured sessions in each Theme are linked

	THEME 1 Mountain Ranges <i>[Geography/Science]</i>	THEME 2 Mountain Adventures <i>[ICT/Geography]</i>	THEME 3 Himalayan Study <i>[Geography/Art/RE]</i>	THEME 4 Mountain Protection <i>[Geography/Science]</i>
1	Facts and information about mountains - [2] Mountain ranges in each continent (Eng/Geog)	Mountaineering - what is it? Why scale mountains? Walk, climb, ice climb, abseil... (Eng/Geog)	Tell story Locate Himalayas, name countries and peaks (Eng/Geog) [2]	Climate change, what is it? How global warming is changing mountains (Geog/Sci)
2	Mountains/volcanos: geology origins different ranges (Geog/Science)	Research on internet about mountaineering. Sites, photos, facts (Geog/ICT)	Himalayan climate, upper peaks, lower hills Season paintings (Geog/Art) [2]	Glaciers melting - Science of solid to liquid (Geog/Sci)
3	How are mountains formed - plate tectonics, volcanic activity, block & fold mountains (Geog/Sci)	Natural mountain dangers avalanches, weather, etc. Meteorology - science of weather (Geog/Science)	Discuss Indian cities. Life in Kumoan, location, subsistence farms, rural poverty/isolation (Geog)	Environment: plants & animals Eco-effects of tourism - can they be avoided? (Geog/Sci)
4	Mountain climates - recall main ranges - presence of snow lines and tree lines (Geography)	Looking at mountaineering equipment - look at its necessary qualities Write advertisement (D&T/Eng)	Compare Kumoan homes to ours - make Kumoan home model choosing materials (Geog/D&T)	What can we do? Eco-tourism, mountain protection. Design posters/slogans (Geog/ICT)
5	European mountains - alps, Pyrenees, Picos de Europa, etc. Web pics (Geog/ICT)	Mountain gear: properties of materials, experiment w good insulators & freezing matrls (Sci/D&T/Geog) [2]	Engage in a lesson in a Kumoan school - Indian lesson, Learn Hindi numbers (Geog/PHSE)	Mountain wild-life. [2] Research endangered species on web. Make 3-d poster (Sci/ICT)
6	Mountains in UK/Europe. Finding info on web, DTP a poster on a chosen range (Geog/ICT) [2]	Start to design own sleeping bag (draw on understanding of insulators from sess 5) (D&T/Sci)	Day in the life of a child in Kumoan, compare to UK Write diary entries for Kumoan (Eng/Geog)	Mountain plants - do research, draw/make food chain mobiles (Sci/Art/D&T) [2]
7	Plan/make papier-mâché models of a range of mountain ranges: identify /label peaks (D&T/Geog)	Research web for materials developed for insulatn: fleece, neoprene...Complete design for sleeping bag (D&T/Sci)	Rivers & water: access to clean water/carrying water, uses, religious significance (Geog/Science/RE) [2]	Yeti - does it exist? Any sound scientific evidence? Research internet (Sci/ICT)
8	Create/finish model of chosen mountain ranges Check that mountains are recognisable (D&T/Geog)	Famous expeditions Everest 1953 Hilary/Tensig Norgay Failed attempts- postcards back home (Geog/Eng) [2]	People in Kumoan culture/ religion: Hinduism Nanda Devi, pictures of Hindu Gods (RE/Geog)	Make Yeti footprints clay/plaster of paris - look at other animal's foot prints (Sci/Art)
9	Sea mountains & trenches Solutions: dissolve salt in water/non-soluble solids Add heat. (Geog/Sci) [2]	Mountaineering disasters - accidents & failures, what to be aware of/prevention Touching the Void (Geog)	Look at Rhaki: festival for siblings Design/make own friendship bracelets for family (Art/RE)	Drama plays based on expedition looking for the Yeti in Nepal (Drama/Geog)
10	What are black smokers? Separating solutions by evaporation. Solid/liquid/gas diffs (Science/Geog)	Touching the Void -Trust and responsibility Team building: engaging in trust exercises (PHSE/PE)	Kumoani food and meals - cooking a Kumoani meal - How healthy is it? (Geog/Science/D&T) [2]	Creating mountain scapes: use visuals of mountains & layering paint techniques (Art)
11	Mountain art: Web research Japanese wood block paintings (Art/ICT)	Climbing skills, learning how - Prepare/go on trip to a climbing wall (PE/Eng) [2]	Compass directions - Find one's way in mountains - India map (Geog/Maths)	Choose mountain range Create Power Point presentatns(Geog/ICT)
12	Hokusai Japanese paintings: Mount Fuji - Creat own pastel versions of these (Art/Geog) [2]	The Alps in Austria. The Sound of Music Musicals: learn songs/perform dance (Music/Geog/Dance) [2]	How do we find our way in the mountains? Local park orienteering trip to show how (Geog/Maths)	Make effective power-point presentations - Show awareness of audience (ICT/Eng)

Key Texts and Resources: Mighty Mountains

Theme One: Mountain Ranges (Geography/Science)

This theme gets Mighty Mountains moving onwards and upwards as children find out more about the mightiest mountain ranges of them all and also about some of their smaller relations closer to home.

I wonder why mountains have snow on top? from the Wonder Why series by Kingfisher (ISBN: 0753405385) is a useful text when supplemented with other similar titles on the same theme.

Access to numerous copies of an atlas with a page showing the World and UK mountain ranges is also very useful. Large copies of UK, European and World maps are essential either in paper form or projected onto an interactive whiteboard. In session 9a a large piece of chalk, sand, salt, sugar, bicarbonate of soda and coal dust are all needed for an exciting hands on Science experiment.

Theme Two: Mountain Adventures (Geography/ICT)

What is it about someone that makes them want to climb the world's highest peaks? - the children find out in this theme. That large World map from Theme 1 is needed again as is access to the internet throughout. Session 4 requires access to catalogues selling climbing equipment or the real thing! As children focus upon insulation access to a 4-5 season sleeping bag and a variety some good insulators (wool, feathers, foil) and some bad ones (cardboard, cotton, nylon) become essential. From session 9 onwards the DVD and or the book **Touching the Void** by **Jo Simpson** (ISBN: 0099771012) are essential. Sessions 11 and 11a see the children get their hands on real climbing equipment and if possible visit a climbing wall. Before the theme ends with a chance to listen and watch and sing along to extracts from the Sound of Music in Sessions 12 and 12a.

Theme Three: Himalayan Study (Geography/Art/RE)

This theme was written directly from the experiences of our writer who visited the Kumoan region of India . high in the Himalayas. Her fascinating accounts and images provided as part of this theme are excellent resources! Detailed maps of the area are also provided so that children can locate the regions described in the accounts. In Session 4 children create their own Kumoan house models and so a collection shoe boxes, split pins, cocktail sticks and wood shavings would be very useful. In session 7 for the clean water experiment buckets, water carriers and plastic bottles and cups are essential. In Session 8 and 9 a collection of books about Hinduism is useful, while the ingredients needed for Session 10a's cooking (see you will need list) will get the taste buds working! In the final two sessions compasses are needed to point children in the right direction as they leave the school grounds for some orienteering in a local park or rural area.

Theme Four: Mountain Protection (Geography/Science)

The mountain regions that the children have studied in themes one, two and three need protection and this forms the emphasis for theme four. Internet access is needed throughout as children find out more about the effects of Global Warming. In session 3 holiday brochures advertising mountain holidays and activities are a useful resource. **Mountains in Danger** by Robert Snedden (ISBN:0749658207) is an essential text in a number of sessions. In Session 8 each child needs to have a block of clay, while session 10 requires a large collection of as many different types of paper for a collaged painting activity.