Ser.	
*	
Ý.	J

Easting

references

Northing

Ordnance

survey

symbols

maps

Grid

The numbers used in a grid

The numbers used in a grid

used to locate a place.

represent a feature.

(lkm²).

reference that run west to east.

The numbered squares on a map

reference that run south to north.

Small pictures, letters or lines that

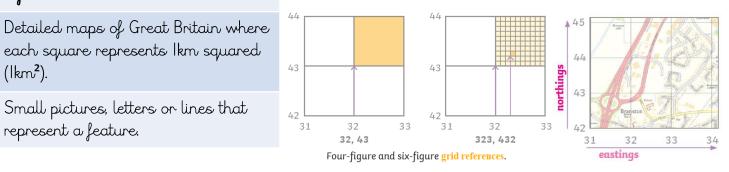
Ridgeway Farm CE Academy - Knowledge Organiser

Topic		Mountains		Theme	Creation		Year Group	V	5
Key Question	J	Why are mountains so important?							
Subject		Geography I							
	Key	y vocabulary	<u>Grid References</u>			Compass Points			
Atlas		ection of maps often of each y in the world.	 A map is crisscrosse a grid. 		d vertical lines that create	Four-Point Compass	N	Eight-Point C north (N) north-east(NE	
Compass	A tool	used for showing direction.	 The grid and square locate features on a 		earch area so you can	E - east		east (E) south-east (SE	
Digital map	A map a satno	, that uses technology such as av.	 Usually, the lines ar Eastings are the nu Northings are the n 	mbers that run from	west to east.	S – south W - west	da)	south (S) south-west (S west (W) north-west (N	She S

The easting and northing numbers are put together to create a four-digit grid reference, e.g. (32,43), which refers to the bottom left corner of a square on the map.

• Grid references can be even more specific by adding an extra digit to both the easting and northing numbers.

These six-digit grid references, e.g. (323,432), tell us more precisely whereabouts in the square something is.



 Maps use symbols instead of words to label real-life features. A key on the map tells you what the symbol means. Nature <u>5</u> Cycle Trail Footpath Reserve Train Place of Motorway Station Worship

ALL REAL	Rid	geway Farm (CE Academy	- Knowledge	e Organiser			
	Mountains		Theme	Creation			Year Group	5
Key Question	Why are mountains so important?							
Subject	Geography 2							
avalanche A large amou Condensation The transform crust The outermos Evaporation: The transform humidifies the face the "side" of a foot the bottom of gorges A narrow val Groundwater: Water located	mountain the mountain ey with steep walls, found between hills or mountains. , below ground.	 They rise at They have a Some mount some mount 	ire a natural part pove 300m. i summit of at lec cains are found in ains can be on the est is the highest	ist 600m. , groups called a eir own.	mountain range	100	valley slo base	perface peak ridg
up. lava Hot, liquid roc magma Hot, liquid roc	dition when the body gets too cold and can't warm itself k that flows from a volcano. k located deep below the earth's surface. on visible from the surface	How Are Mounta Fold mountains	ins Made? Fault-block mountains	Volcanic Mountains	Dome mountains	Plateau Mountains	Why Do People Vi •The view• •Keeping fit	sit Mountains?
Precipitation: The transfer of and sleet: a long: narrow Runoff: slope an area of gre Snowline above here sn	t, high-ground f water from the atmosphere to land, Rain, snow, hail r, high section of land and streams transport water from land to the oceans. Too can cause excess runoff, or flooding, rund increasing in height ow and ice cover the mountain all year.	Tectonic plates collide and rock is pushed up.	Cracks in the earth's surface open up, some chunks of rock are pushed up, some down.	Formed around volcanoes and made of layers of ash and cooled lava.	Formed when magma is forced upwards but doesn't ever flow out of the crust.	Materials taken away through erosion leave deep valleys or gorges next to high cliffs.	•The challenge •Skiing •Climbing •Photography 8,848m	
Tectonic platePieces of the ofThe Earth'sThe distributionWater BudgetiTranspiration:Transpiration:Transfer of wTransportiThe movement	pint of a mountain. earth's crust connected together: in of water among the oceans, land and atmosphere. ater to the atmosphere by plants and vegetation. It of water through the atmosphere. int at which forests are found						3,239m 3,239m Mt Everest (Himalayas) (Antarctica)	3,184m 2,935m 1,; Mt Jackson Mt Paget Ben (Antarctica) (South Georgia) ((

		Ridgeway Farm	n CE Academy - Knowledge O	rganiser	
Topic	Design Technology		Theme Creation		Year Group 5
Subject	Structure - bridges				
			Key knowledge	Structures - B	Iridges
(ey facts	Kapow		•To understand some different ways	Accurate	Neat, correct shape, size and pattern with no mistakes.
orces can change t	the shape of objects, they		to reinforce structures. •To understand how triangles can	Arch bridge	A bridge which is built with a curved arch.
can also make obje	ects begin to move, speed U r slow down. Truss bridg	UUU e Suspension bridge	be used to reinforce bridges.	Beam bridge	A bridge which is built with horizontal beams and vertical pillars.
push	pull		•To know that properties are words that describe the form and function	Bench hook	A tool which hooks onto the edge of the workbench. It's used to hold woodwork still when sawing.
	Beam bridg	1000 Marcan	of materials.	Compression	A squashing force caused when parts of a structure are pushed together.
	Gravity is a force which pulls everything towards the centre of the Earth.			Coping saw	A saw with a narrow D-shaped metal blade, used for cutting curves in wood.
Pulls and push	Les are both forces.	e force	properties.	File	A tool used to smooth down rough edges on wood or metal materials.
		15 - 10	•To understand the material	Mark out	To measure and mark where a piece of material needs to be cut or shaped.
			(functional and aesthetic) properties of wood	Reinforce	To make a structure or material stronger, especially by adding another material or element to it.
V I.II				Sand paper	Strong paper with sand on one side to smooth or polish woodwork.
Key skills •Designing a sta	ble structure that is able to support wei	000	, structure needs reinforcement and r support.	Set square or Try square	A right-angle triangular plate, wood or metal tool used for drawing lines at 90°, 45°, 60°, or 30°.
0 0	ne structure with focus on triangulation	1 0 0	ecting appropriate materials is an	Shape	The form of an object.
0 0	e of different shaped beam bridges.	important part of the	0	Structure	Something which stands, usually on its own.
distance and support a load. • Adapting and improv		c wood functional properties. wing own bridge structure by weakness and reinforcing them as	Suspension bridge	A bridge which is supported by vertical cables and suspended by cables which run between pillars that are connected onto either end of the bridge.	
 Independently measuring and marking wood accurately. Selecting appropriate tools and equipment for particular Suggesting points for 			mean icos ai ai rei gui ai ag a leiti as	Tenon saw	A saw with a flat blade, used for cutting wood in straight lines or angles.
			or improvements for own bridges and	Tension	A stretching force caused by two parts of a structure being pulled apart.
	ect techniques to saw safely.	those designed by oth		Truss bridge	A bridge which is built from a series of triangular beams.

		Ridgeway Fa	rm CE Academy -	Knowledge Orga	niser			
Topic	Mountains		Theme	Creation		Year Gra	oup	5
Subject	Computing: Spreadsheets							
	Key Learning		Key Vocabulary			Keyl	mages	
	mulae within a spreadsheet measurements of length ice.	Rows Boxes running horizontally in a spreadsheet.	Spreadsheet A computer program that represents data in cells in a grid of rows and columns. Any cell in the	Columns Boxes running vertically in a spreadsheet.	Open, close or share	Save your work	Open a previously	Increase or decreas
 To use the count to hypotheses about o use. To use a spreadshe 	e count tool to answer es about common letters in preadsheet to model a real-	Data A collection of information, especially facts or numbers, obtained by observation, questions or	A collection of information, especially facts or numbers, obtained by observation, questions or measurement to be analysed and used to help decision-making. Advance mode A mode of 2Calculate in which the cells have references and can which the cells have the second can which the cells have the second can the second c	Formula A group of letters, numbers, or other symbols which represents a scientific or mathematical rule. The	a file	ſ≈	saved file	spreadsheet size
	mulae to calculate area and	and analysed and used to help decision-making. Advance mode A mode of 2Calculate in which the cells have		plural of formula is formulae.	Advanced mode	Formula Wizard	Format Cell Toolbox	Charts
variables.	formulae that use text			Formula Bar An area of the spreadsheet into which formulae can be entered			۲	8
school cak	preadsheet to help plan a e sale.	include formulae.	e.g. 4 ½ or include units such as £ or \$.	using the '=' sign to open the fomula.	Totals toolbox	Image Tools	Controls Toolbox	Random Number
		Formula Wizard The wizard guides you in creating a variety of formulae for a cell such as calculations, totals,	'How Many?' Tool Counts how many of a variable there are in a spreadsheet.	Totalling tool Adds up the value of every cell above it, next to		=	?	C
		averages, minimum and maximum for the selected cells.	Variable Used in computing to keep track of things that	it or diagonal to it according to which total tool is selected.	Spir	Ctri	uals T	Ctrl + V
			can change while a program is running.		То Сору	То	Cut	To Paste

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		Ridgewaį	y Farm CE ,	Academy -	- Krowledge	Organiser		
Topic	Mountains		Th	eme	Creation		Year Group	5
Subject	Computing: Databases							
	Key Learning		Key Im	nages			Key Vocabulary	
in a databa	ow to search for information				Q	Arrange Sorting information in order against a search request.	Avatar An icon or figure representing a person in a video game, Internet forum, etc.	Chart A diagram that represents data. Charts include graphs and other diagrams such as pie charts or flowcharts.
	a database around a chosen	Open, close or share a file	database database	Add a record to the database	Find information in the database	Collaborative Produced by, or involving, two or more parties working together.	Data A collection of information, especially facts or numbers, obtained by observation,	Database A set of data that can be held in a computer in a format that can be searched and sorted for
		Sort, group and arrange information		information as a	Table view of records	Field A heading in a database	questions or measurement to be analysed and used to help decision-making.	information.
						record against which information is entered.	Group Putting similar pieces of	Record A collection of data about one item entered into a database.
						Database Report A way of producing a written paragraph that incorporates the data from the fields and	information together in a database so it is easy to read, understand and interpret.	Search A way of finding information.
			Avatar c	reator		Sort Organising data by a rule such as	Statistics The study and manipulation of data, including ways to gather, review, analyse, and draw conclusions	

alphabetical or

numerical.

from data.

	Ridgeway	Farm CE	Academy -	· Knowledge Organiser			
Topic	Mountains		Theme Creation			Group	5
Subject	Science: Properties and changes of materials – c	ontinued fro	om term 2				
circuit	Vocabulary a complete route which an electric current can flow around			Vocabulary ains two or more substances combined evenly			
condensat ion conductor			the structure or condition of something rat a measure of how hot or cold something is		What are electrical insulators		ors allow electricity to pas ily while electrical insulator
dissolves	when a substance is mixed with a liquid and the substance disappears a form of energy that can be carried by wires and is used for heating and lighting and to provide power for devices		l relating to or caused by heat or by changes in temperature ar If an object is transparent, you can see through it		and conductors?		rs have a high resistance it is hard for electricity to e objects.
evaporati	to turn from liquid into gas; pass away in the form of vapour.			, change or that has no fixed value ch water on the earth evaporates, then condenses in			

a device used to remove dirt or other solids from liquids or gases. A filter can

a form of matter that is neither liquid nor solid. A gas rapidly spreads out

be made of paper, charcoal, or other material with tiny holes in it.

an object or material can be bent easily without breaking

in a form that flows easily and is neither a solid nor a gas

to change from a solid to a liquid state through heat or pressure

of a substance, being such that **gas** or **liquid** can pass through it

having a firm shape or form that can be measured in length, width, and height;

a series of actions used to produce something or reach a goal

when it is warmed and contracts when it is cooled. impossible to **dissolve**, esp. in a given **liquid**

having to do with magnets and the way they work

a non-conductor of electricity or heat

a tiny amount or small piece

able to turn or change back

not like a **liquid** or a **gas**

able to be **dissolved**

the ways in which an object behaves

the speed with which something happens

the opposing power of one force against another.

impossible to reverse, turn back, or change.

filtering

flexible

insoluble

insulator

irreversibl

magnetic

melting

particles

permeable

process/

rate

properties

resistance

reversible solid

soluble

gas

e

liquid

What	will I know by the end of the unit?
How to group materials based on their properties using more complex	magnetic transparent flexible
vocabulary. What are	permeable soluble insoluble
thermal	 Materials which are good thermal conductors allow heat to move through them easily.
insulators and conductors?	 Thermal conductors are used to make items that require heat to travel through them easi- ly, such as a saucepan which requires heat to travel through to cook food.
	 Thermal insulators do not let heat travel through them easily.
	 Examples of thermal insulators include woollen clothes and flasks for hot drinks.

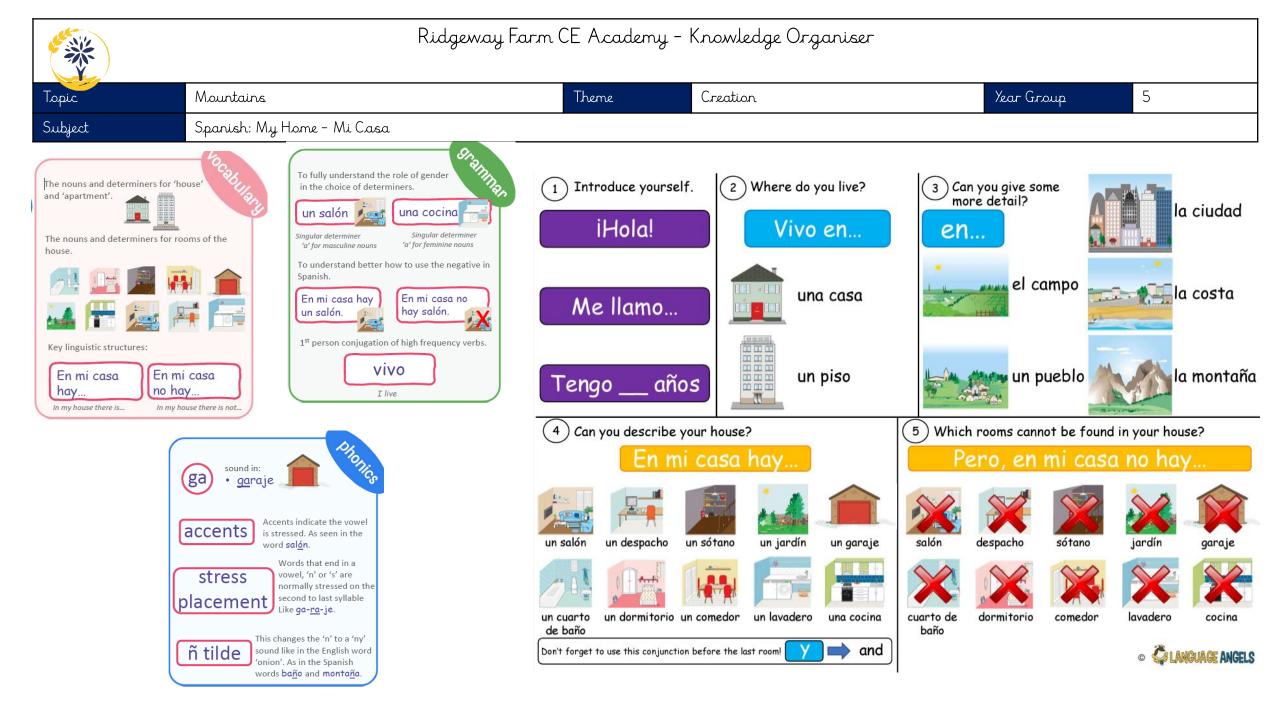
thermal insulator

thermal conductor

ses in	insulators and conductors?	 electrical insulators have a high resistance which means that it is hard for electricity to pass through these objects.
	What is dissolving?	 When the particles of a solid mix with the particles of a liquid, this is called dissolving. The result is a solution. Materials that dissolve are soluble. Materials that do not dissolve are insoluble. Materials that do not dissolve are insoluble. insoluble insoluble
	Can materials be separated after they have been mixed?	 Some materials can be separated after they have been mixed based on their properties - this is called a reversible change. Some methods of separation include the use of a magnet, a filter (for insoluble materials), a sieve (based on the size of the solids) and evaporation. When a mixture cannot be separated back into the original components, this is called an irreversible change. Examples of this include when materials burn or mixing bicarbonate of soda with vinegar.

Торіс	Mountains		Theme	Creation			Year Group	5
Subject	Science: Properti	es and changes of materials continued						
 easily a material charge pass throug Good conductors and electricity point of the second conductors of	neasure of how quickly and will let heat or electrical h. , like metal, will let heat bass through quickly. like plastic and rubber, will l electricity pass through	Transparency is a measure of how much light pass through. • Opaque materials, like metal and wood, do light pass through so objects on the other si seen.	not let any	A reversible change is when changed but can be easily original state. Dissolving is a reversible ch dissolved substance can be evaporating the liquid. Mixing vinegar and	reverted to its	cannot be	easily reverted to its ori ced in the process. Burning is an irre	a material is changed ginal state. New material versible change in which d and makes new produc
naterial can be so Hard materials, scratched or de	ike clay or wax, can be	 Translucent materials, like some plastics, lei pass through. The light is scattered as it pa so objects on the other side (if visible) appea coloured or distorted. 	isses through	bicarbonate of soda is an irreversible change. A new product (a gas) is formed which causes fizzing. Changes of state are all ex back to its original state.	amples of reversible	makes rus (oxygen).	an irreversible change in t when exposed to water use heating or cooling th	and air
iccording to their wildings are made	en for specific uses properties . For example, 2 from strong, durable 1, stone, brick, concrete and	 Transparent materials, like glass, let most li through with minimal scattering so objects of side are clearly visible. 			melting →		evaporating	555 555
				solid	freezing	liquid	condensing	gas

X	Ridgeway Fc	ırm CE Academy -	Knowledge Organiser		
Горіс	Music	Theme	Creation	Year Group 5	
Subject	South and West Africa				
Vocabula Chord Chord progression Major chords Minor chords Break Call and response A capella Soloist		Fluency - Being a Accuracy - Getting Control - Controlli Expression - Giving Instruments Percussion In	at once. 5-beat. create a steady sound (beat) to help musicians play rhythms accurately.	Key knowledge • To know that songs other languages can sounds that are unfar us, like the clicks of the language. • To know that 'The C Song' is a traditional sung in the Xhosa land and is believed to bri luck at weddings. • To understand that re chords create a bright sound. • To know that poly-re means many rhythms	contain niliar to re Xhosa Llick song nguage ng good najor t, happy hythms
Duo	Two musicians or singers who perform together, known as performing a duet.	Shekere	Bongos	at once.	



		Ridgeway Farm C	E Academy - k	Knowled	ge Organise	r			
Торіс	Mountains		Theme	Creation			Year Group	2 5	
Key Question	What does it mean to	be a Muslim in Britain today?							
Subject	Religious Education								
 a Muslim Make connections by practice of the Five about God and the line of the five perplain how these of Muslims Describe and reflect the Holy Quran to N Describe the forms uses and compare the guidance experience Make connections functions of the most Muslims. Look for similarities between the life of content of the second content of the most matches and content of the most Muslims. 	Pillars and their beliefs Prophet Muhammad allars of Islam and affect the daily life of on the significance of Muslims. of guidance a Muslim hem to forms of ed by the pupils. between the key sque and the beliefs of	Key Vocabulary: <u>Allah</u> Arabic word for God. In Islau unique, all powerful, all knowing. <u>Muslim</u> Someone who follows the te <u>Five Pillars</u> Basic acts of Islam, cor (essential) by believers. <u>Prophet Muhammadi</u> Allah's final Proclaimer of the will of Allah. <u>Hadith</u> Record of the words, actions Muhammad (pbuh). <u>Qur'an</u> Islamic sacred book. Believe dictated to Muhammad. <u>Ibadah</u> : Arabic word meaning servi <u>Sunni/Shi'a/Sufi</u> Different denomina <u>Islam</u> Second largest religion in the Prophet Muhammad (pbuh). <u>Surah</u> A chapter of the Qur'an. The Qur'an altogether: <u>Mosque</u> Muslim place of worship. To One and Single <u>Method Of Offering S</u> <u>Al-Qyam</u> <u>Ruku</u> Qyam <u>sajad</u>	eachings of Islam. nsidered mandatory messenger/prophet. s and sayings of the ed to be the word of ice. ations (groups) of Mu e world, founded by t we are 114 Surahs in Fawhid Belief that Go	Prophet Allah as Islims the	What should i Muslims belie names for Allal They believe t There are five charity, fasting, The Five These are the five most in The shahadah all y lip lip lip lip The belief that there is no God but Allah and that Muhammad is his messenger.	ve in Allah a h to understa that Muhamm e pillars in Isl pilgrimage). Pillars of	s the one true nd him better. rad is God's m .am (professior Islam	iessenger. r of faith, pray الخمسة	

Ridgeway Farm CE Academy - Knowledge Organiser						
Topic N	Nountains	Them	le Crea	tion	Year Group	5
Subject A	Nrt					
Key vocabulary art medium atmosphere background carbon paper collage composition continuous line drawing evaluate justify mixed media monoprint multi media paint wash portrait printmaking represent research self-portrait texture		Mixed media artwork us a combination of different materials. Self-portraits can communicate things about the artist depending on: The composition The materials used What is included in the background The artist's clothes Their facial expression	nt Not Not Not Not Not Not Not No		Beter to represent a cool colours. detail to art works, for everyday objects to add	Add contrast with a backgrour Image: Collage:
transfer Artisits: Fida Kahlo. Ch	Collage Identity	Cutting, arranging and sticking mat fabric etc to a background Your qualities or beliefs that make y	The second secon			
Artisits: Fida Kahlo, Ch Kumari Singh Burman, Vincent van Gough, Sc	Mixed meala	Art made from a combination of diff A print that can only be made exact once			R	
Boyce, Njideka Akunyili Crosy		Artwork that includes audio or video Collage made from photographs	elements			
0	Self-portrait	A portrait of the artist, by the artist	ł			

Self-portrait