

UNIT 1 SPRING TERM: OPERATION : ICE BREAK

Curriculum context: Half Term Theme: Survival OPERATION: ICE BREAK Linking Science and Geography							
Curriculum Intent: to develop understanding of other environments, effects of weather / water / temperature – link to global warming							
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Book to read aloud / Share	We're going on a bear hunt  Lost and Found – Oliver Jeffers	Ice Planet Adventure JC unit – Non Fiction		The secret of Black Rock -JC Unit  Adventure and PSHE based story		Scott of the Antarctic – JC Unit – Non Fiction Diary entries  Geog Knowledge connection: Before Scott's expedition we did not know there was a land mass under the ice, explaining Gondwana	Greta – JC unit Non Fiction Geog Knowledge connection : How humans create geological change
PHSE Skills	What keeps me healthy? (You, me & PSHE) <u>Circle Time:</u> How do you know when someone is sad or lonely? Facial recog/what might the say or do? If you think someone else if sad / lonely what can help?	What keeps me healthy? (You me & PSHE) <u>Circle Time:</u> Review friendship work from Aut A unit – What is a friend?  Read Wolf's Colourful Coat Should Wolfgang give Dog a second chance? What about the Rat & Racoons?  Now, Press, Play KS1 Mental Health experience		Physical Health & Wellbeing (You me & PSHE) <u>Circle Time:</u> Are feelings facts? Just because you feel scared of something it doesn't mean it is scary – read The Wolf and Shadow Monster  Now, Press, Play – KS2 Mental Health experience  Keywords to research, understand and use: Endurance (Shackletons Ship) and Patience ( Patience Island)		Physical Health and Wellbeing ( You, me & PSHE) – see Y4 unit to recap <u>Circle Time – Class Debate:</u> The 100 dogs were a really important feature of Shackletons Expedition. The remaining dogs at Patience Camp were shot. Why- Was that the right thing to do? Is it ok to kill an innocent animal? Person? Are animals equal to humans?  Shackleton Ship was called Endurance – can you demonstrate what endurance means to you/ your class?	Mental Health ( You, me & PSHE)  Circle Time : What are the implications of Global Warming – what can be done? Can we do anything  Global warming stripes as stimulus <a href="https://tropicsu.org/visualization-show-your-stripes-changes-in-temperature-link-with-Geog">https://tropicsu.org/visualization-show-your-stripes-changes-in-temperature-link-with-Geog</a>
DT	Making a boat to float from different recycled materials such as tin foil. Adding a sail to help the boat move faster on the water - identify the wind as a force	Investigate/ observe / record - Mittens / glove design - dissect some gloves / mitten – what have they been made of, identify the fabric, why are they those colours, shape, material? Observe others using range of mitten / gloves to complete Ice sculpture play ( see Art) <a href="https://onlypassionatecuriosity.com/great-gloves-marvelous-mittens-stem-challenge">https://onlypassionatecuriosity.com/great-gloves-marvelous-mittens-stem-challenge</a>		Food Technology  Following instructions to make Rock Buns  <a href="https://www.bbc.co.uk/food/recipes/rock_cakes_03094">https://www.bbc.co.uk/food/recipes/rock_cakes_03094</a>  link to change and irreversible change concepts		Making Bivouacs to protect from outdoor elements. Researching design ideas, carrying out experiments to find out which Bivouac design offers best protection from the elements. Link to Shackleton Team making dog igloos, make shift camps that could be cleared in 10 mins etc Knowledge: features of a good Bivouac are...	<a href="https://www.teachingideas.co.uk/dt/win-d-power-challenge">https://www.teachingideas.co.uk/dt/win-d-power-challenge</a>  Consider Global warming and renewable energy sources – design & make a wind turbine – adapt the design to lift the most weight.
History	Concepts of time linked to the daily calendar and date  Understanding for us Christmas always happens in Winter, Easter always happens in Spring Making personal link : to know when their birthday is To know which season their birthday is in.	Link to prior learning about Seasons and weather patterns. Developing the knowledge/ understanding of  At the moment it is Winter in the UK but in Australia it is the Summer What season is it now in Antarctica? Spain? time What season is their birthday is? But if they lived in Australia what season would their birthday be in? etc ...		<a href="https://www.youtube.com/watch?v=HosGqMXSeWk">https://www.youtube.com/watch?v=HosGqMXSeWk</a>  <a href="https://youtu.be/Z6ITcZ5qoUk">https://youtu.be/Z6ITcZ5qoUk</a>  to read Shackleton's Journey to class add Shackleton / Scott to class history time line – link with Geography work that		Add Ernest Shackleton / Robert Scott / Roald Amundsen- to class time line. Proximity to WW1 – life of Dali, Knowledge: pre 1914 no-one knew what was a the South Pole or where land mass was / wasn't	Add Ernest Shackleton / Robert Scott / Roald Amundsen- to class time line Proximity to WW1 Knowledge: pre 1914 no-one knew what was a the South Pole - link to explorers and currently we don't know fully what is on other planets – link to Space and Place topic. Add Darwin to timeline
Geography	Making a story map for Lost and Found / Role play representing different parts of Lost and Found story	To understand the difference between land mass and water on a globe / map – Look at Antarctica South and North pole -Name and locate continents and oceans		Mapping Antarctica / Arctic physically on the playground using rope, markers and chalk. Naming continents and oceans. Introduction to using compass to find North and link to previous work on magnets (Magic topic). To know that the North Pole (Arctic) has no land mass – only floating Ice / South Pole (Antarctica) is on land and they know this from fossils of trees...		Looking at the maps – identify Elephant Island South Georgia, UK, Greenland, Australia. Identify the route taken by Shackleton on Endurance. Look at grid referencing on maps and how to use 8 point compass. Use	Looking at the maps – identify Elephant Island South Georgia, UK, Greenland, Australia. Identify the route taken by Shackleton on Endurance. Look at grid referencing on maps and how to use 8 point

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	Small world play – penguins, icebergs, water, South Pole	Find UK on Map, look at where different animals live ( climate) identify adaptations needed for different climates (link to science) Seal blubber, Wolf fur etc ..		orienteering maps for our locality – use of maps, keys, references on OS and 8 point compass	compass. Use orienteering maps for our locality – use of keys with OS maps using 4- and 6- figure grid references and 8 point compass
Science	Floating and sinking exploration, shape – exploration of the wind as a force to move things	Investigating materials : Stem Challenge <a href="https://onlypassionatecuriosity.com/great-gloves-marvelous-mittens-stem-challenge">https://onlypassionatecuriosity.com/great-gloves-marvelous-mittens-stem-challenge</a>	Fossils and rocks: To know how soil forms, about different types of rocks and how fossils form – being Rock Detectives ( See Hamilton Trust STEM activities) <a href="https://www.stem.org.uk/resources/elibrary/resource/26719/rocks-rocks-and-fossils">https://www.stem.org.uk/resources/elibrary/resource/26719/rocks-rocks-and-fossils</a>	Shackleton Expedition – temperature, shelter, forces investigations. Create a research hut – investigate and record temperature inside / outside	Biology – Evolution and Adaption <a href="https://youtu.be/BcpB_986wyk">https://youtu.be/BcpB_986wyk</a>  To understand the implication of evolution and adaption in connection with global warming
Music	Charanga	Charanga	Charanga  <a href="https://www.bbc.co.uk/programmes/p01dxmrg">https://www.bbc.co.uk/programmes/p01dxmrg</a>	Charanga  <a href="https://www.bbc.co.uk/programmes/p01dxmrg">https://www.bbc.co.uk/programmes/p01dxmrg</a> sea shanties	Charanga
Art	<a href="https://youtu.be/wHMTvko29KQ">https://youtu.be/wHMTvko29KQ</a> colour mixing using water	<a href="https://chilidsplayabc.wordpress.com/2019/02/05/ice-cube-igloo/">https://chilidsplayabc.wordpress.com/2019/02/05/ice-cube-igloo/</a> Children to build with ice cubes – can the create a Ice home. Trialling different mittens/gloves – other children observing/ recording how successful the gloves / mittens were	Digital Art:  To make a rock monster / character ( golem) in Minecraft – link to Rock character in Secret of Black Rock story  ( explore digital programme to represent an image)	<a href="https://youtu.be/b_MliFL0aSs">https://youtu.be/b_MliFL0aSs</a> Creating winter images  Learning how to sketch a tree in winter – using Y V strategy – practising holding pencil lightly and moving fingers toward mid-section of pencil, adding and removing pressure – looking at real tree – finding the v y to draw	
RE	Use of water to baptise Christian people Christen babies with water to reprint wash away of bad things (sins)	Christianity new baby celebrations – using water Compare and contrast to Islam new baby celebrations	England is a 'Christianity' based country – how do we know that? Do we ALL celebrate Christmas / Easter / Christenings / go to church/ read the bible Our Laws are based upon the 10 Commandments can you think of a crime and see which commandment it links to? Christianity is a faith of forgiveness – meaning we can always ' repent' for doing wrong. Even if you kill someone, or steal... Do you agree that is fair?	Christian Law (UK) is based upon 10 Commandments – wher eyou have to believe everyone can change and 'repent' Sharia Law (Islam) says if you do someone thaeen then same should happen to you – If you steal, cut off the hand, if you kill, you will be killed. Buddists say Karma (the universe) will give you the punishment What do you think?	Moral Decisions: Christian have 10 commandments Muslims have 5 Pillars – both believe in an after life – Heaven or Paradise . If there is an afterlife for all believers – do we need to worry about climate change? If we just live a good life we will be ok.... Won't we?

<https://www.spri.cam.ac.uk/museum/resources/teacherpackclothingobjectsfromantarctica.pdf> Science investigation ideas for insulation and material investigations

<https://www.theguardian.com/childrens-books-site/2015/may/21/ernest-shackletons-endurance-expedition> Interesting facts about Ernest Shackleton

Global temperature change (1850-2019)

