



Topic: 'Is the geography of Russia a curse or a blessing?'

sia lies on the two continents of Europe and Asia. sia is around 70 times bigger than the UK with a population of 114.5 on. iningrad is an exclave of Russia. ave — part of a country that is cut off from the main part (you have to cross her country to reach it). sia has many physical features which include the Ural Mountains, Caucasus ntains, Rivers Ob, Volga and Don.		Continental climate – climate group that experiences extreme seasonal change.  Permafrost – permanently frozen ground, found in polar and tundra regions.  Precipitation – water falling from the sky as rain, hail, sleet or snow.  >Russia experiences a continental climate which is characterised by two main seasons: long, dark, cold winters with brief, often warm summers.  >The majority of Russia, particularly the east and north are very cold (average of -2°C or below), the west of Russia is warmer (average of between 2° and
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ntains, Rivers Ob, Volga and Don.		
		10°C).
	11	>Russia's average annual precipitation is 350mm or below.
Lesson 3 - To know what biomes exist in Russia		Lesson 4 - To know where people live in Russia and why
ne – a large community (large ecosystem) of plants and animals found in a	20	Population distribution – how spread out people are (evenly or unevenly).
r habitat such as rainforests, tundra.	21	<b>Population density</b> – the average number of people living in a place per square
etation - the general term for the plant life of a region.		kilometre.
otation - when a plant or animal has to change to suit the environment.	22	Densely populated – lots of people living in an area.
sia has 5 main biomes which are tundra, taiga, steppe, temperate forest	23	Sparsely populated – few people living in an area.
mountain forest .	24	>The population distribution of Russia is not evenly spread out.
tundra biome is a cold region where the ground is deeply frozen; only the acceptance thaws in summer, allowing small plants to grow.	25	>Most of Russia is sparsely populated, especially the north and east whereas the European part of Russia in the west is more densely populated.
	26	>The European part of Russia is densely populated due to a warmer climate for growing food, flatter land to build and is near the capital of Moscow and other
taiga is coniferous forest (e.g. trees that have needles instead of leaves) trees such as larch and pine.		cities for jobs.
		>Northern Russia (e.g. Siberia) is sparsely populated due to a colder climate and
trees such as larch and pine.	27	/ Not the H Russia (e.g. Siberia) is sparsely populated due to a colder climate and
	rees such as larch and pine.	temperate forest has a range of deciduous trees such as oak and ash

Lesson 5 - To understand what life is like in the Arctic		Lesson 6 - To understand the impact the physical geography has on Russia
Hypothermia – the condition of having an abnormally (typically dangerously)	33	Polar Night – where the night time lasts for more than 24 hours that occurs in
low body temperature.		the places north of the Arctic Circle or south of the Antarctic Circle.
Frostbite – an injury to body tissue caused by exposure to extreme cold,	34	Midnight Sun – occurs in the summer months in places north of the Arctic
typically affecting the nose, fingers or toes.		Circle of south of the Antarctic Circle, when the sun remains visible at the local
, ,		midnight.
	35	>Russia's physical geography has many advantages and disadvantages.
>Oymyakon has a population of 500 people and they face many challenges due	36	>Advantages include Russia having a range of natural resources (e.g. coal, iron
		ore, copper); Russia is a vast country (including mountain ranges) which can
		offer protection from invasion; Russia produces 20% of the world's natural gas.
	37	>Disadvantages include the climate – Russia experiences long, dark, cold
receive up to 21 hours of daylight.		winters and precipitation is low; Russia has few ocean ports that are free of ice
		all year round; the East part of Russia is a very volcanic region.
Lesson 7 - To understand why Europe is reliant on gas from Russia		Lesson 8 - To understand why Russia wants to control Crimea
Export – Raw materials, goods and services sold to another country.	44	Gross Domestic Product (GDP) – the total value of the goods and services
<b>Economy</b> – the wealth and resources of a country in terms of the goods that		produced in a country.
are produced and consumed there.	45	>Russia considers anyone who speaks Russian as an 'ethnic Russian' and this
>Russia is the world's largest exporter of both oil (12.7% of the total) and		puts them under their protection.
natural gas (20.4%).	46	>Russia is not developed as well as some of its neighbours which can be
, , , , , , , , , , , , , , , , , , , ,		partially links to access to water and therefore ports.
, , , , , , , , , , , , , , , , , , , ,	47	>Russia has 23,000 miles of coastline, but has no significant warm water, ice
, , , , , , , , , , , , , , , , , , , ,		free ports with direct access to an ocean.
	48	>Sevastopol is the largest city in Crimea and a major port on the Black Sea.
and Italy (20-49%) .		
Lesson 9 - To understand the imp	oacts	of global warming on Russia
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Global warming – increases in the earth's average temperature over time.		
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Global warming – increases in the earth's average temperature over time.  >The amount of sea ice in the Arctic has decreased over time.  >There are many disadvantages of the melting sea ice for Russia and for the rest	of the	e world e.g. sea level rise, loss of habitats & biodiversity.
	Hypothermia – the condition of having an abnormally (typically dangerously) low body temperature.  Frostbite – an injury to body tissue caused by exposure to extreme cold, typically affecting the nose, fingers or toes.  >Oymyakon in Russia is the coldest inhabited place on earth with winter temperatures average -56°C to -60°C, but summer temperatures can reach 30°C  >Oymyakon has a population of 500 people and they face many challenges due to the extreme cold, e.g. exposed skin can freeze in 5-10 minutes, permafrost makes growing crops and plumbing difficult.  >In the winter, daylight only lasts for 3 hours, but in summer months they receive up to 21 hours of daylight.  Lesson 7 - To understand why Europe is reliant on gas from Russia  Export – Raw materials, goods and services sold to another country.  Economy – the wealth and resources of a country in terms of the goods that are produced and consumed there.  >Russia is the world's largest exporter of both oil (12.7% of the total) and natural gas (20.4%).  >These exports of oil and gas account for over 60% of Russia's income.  >The European Union imports 40.2% of its natural gas from Russia.  >European countries rely on Russia for their gas supply, for example Belarus and Finland (75% of their gas); Poland and Austria (50-75%); France, Germany	Hypothermia – the condition of having an abnormally (typically dangerously) low body temperature.  Frostbite – an injury to body tissue caused by exposure to extreme cold, typically affecting the nose, fingers or toes.  >Oymyakon in Russia is the coldest inhabited place on earth with winter temperatures average -56°C to -60°C, but summer temperatures can reach 30°C 35°C yoymyakon has a population of 500 people and they face many challenges due to the extreme cold, e.g. exposed skin can freeze in 5-10 minutes, permafrost makes growing crops and plumbing difficult.  >In the winter, daylight only lasts for 3 hours, but in summer months they receive up to 21 hours of daylight.  Lesson 7 - To understand why Europe is reliant on gas from Russia  Export – Raw materials, goods and services sold to another country.  Economy – the wealth and resources of a country in terms of the goods that are produced and consumed there.  >Russia is the world's largest exporter of both oil (12.7% of the total) and natural gas (20.4%).  >These exports of oil and gas account for over 60% of Russia's income.  >The European Union imports 40.2% of its natural gas from Russia.  >European countries rely on Russia for their gas supply, for example Belarus and Finland (75% of their gas); Poland and Austria (50-75%); France, Germany

methane will be released (a greenhouse gas) worsening the effects of global warming.





Topic: 'Could palm oil lead to the end of the Orangutan?'

	Lesson 1 - To Know what Tropical Rainforests are like	L	esson 2 - To Understand why rainforests have such high levels of biodiversity
1	<b>Biome</b> - a large community (large ecosystem) of plants and animals found in a major habitat such as rainforests, tundra etc.	4	>Tropical rainforest vegetation has distractive layers: tallest emergent trees, canopy, under canopy, shrub layer and then the forest floor.
2	<b>Biodiversity -</b> the variety of plant and animal life in a particular habitat.	5	Nutrient cycle - how nutrients travel from soil, to plans and animals then back
3	>Tropical rainforests are the most biodiverse biomes in the world with over 8,000 species of birds. >Tropical rainforest biomes are located in the tropics as it is hot and wet.	6	into the soil through decomposition in a never-ending cycle.  >The climate in a tropical rainforest has an average temperature of 25°C, a small temperature range of 2/3 degrees & high rainfall of over 2,000mm a year.
	Lesson 3 - To understand why the Tropical rainforests are important	Lesson 4 - To know why tropical rainforests are under threat	
7	>24% of Indonesia's rainforest is already gone. This is the home of Orangutans.	11	Palm oil - edible vegetable oil made from the fruit of oil palms. The oil is used in
8	<b>Deforestation -</b> The chopping down and removal of trees to clear an area of forest for logging, farming, mining and settlements.	12	food, beauty products and as biofuel.  >Orangutans only live in Indonesia on the islands of Sumatra and Borneo.
	>Tropical rainforests are important as indigenous people live there, trees	13	>The demand for palm oil has increased rapidly from 1 million metric tonnes in
9	absorb CO₂ and regulate the world's climate, provide habitats for animals, 25%		1900 to 75 million metric tonnes now.
	of medicines come from them and natural resources such as wood, rubber and	14	>Orangutan numbers have declined rapidly because the tropical rainforests
	fruits are found there.		which are their habitat is being cleared for palm oil plantations, small holder
10	>The orangutan population in the world has decreased rapidly from over 300,000 in 1900 to an estimated 100,000 now.	15	agriculture, cattle pasture and logging. >45% of deforestation is actually from smallholder agriculture.
10	Lesson 5 - To know the causes of deforestation in Borneo		son 6 - To understand why rainforests are important to the people of Indonesia
16		22	>Indonesia is in SE Asia and the capital is Jakarta on the island of Sumatra.
	atmosphere and storing it.	23	>Indonesia burns tropical rainforests and the peat underneath releasing CO <sub>2</sub>
17	Slash and burn - Existing forest is cut down and burned off to clear land for		into the atmosphere which causes global warming.
	farming.	24	>The climate of the world is set to get hotter by an average of 2°C.
18	, , ,	25	>The Indonesian Government took over the land and 72% of it was licensed to
19	responsible and sustainable management of forests.	26	companies to remove the forest and replace it with palm oil plantations.
20	Logging - cutting down trees for timber (wood to sell).  Small-holder agriculture - Farmers cut down areas of forest for crops when the	26	>20% of $CO_2$ in the world's atmosphere comes from deforestation.
20	soil on their existing land becomes degraded.		
21			
	plantations. An increasing supply-demand for products such as palm oil and		
	soya beans are driving producers to clear forests.		

	Lesson 7 - To understand how palm oil affects me		Lesson 8 - To know how Indonesia benefits from palm oil
27 28 29	>Palm oil is in 50% of our products including cosmetics such as shampoo, make up and soap, food such as chocolate, biscuits and crisps and washing liquids.  Roundtable Sustainable Palm Oil certification - ensures that palm oil is produced sustainably.  Sustainability - when materials and resources are used in a way that will balance the needs to the present without compromising the ability of future generations to meet their own needs.	30 31 32 33 34 35 36 37 38	Quality of Life - the standard of factors such as health, education, economic security, safety, comfort, and happiness experienced in a country.  Economic Development - process by which the economy, health and education of a country improves over time.  HIC (High Income Country) - A country with a high level of economic development.  NEE (Newly Emerging Economy) - A country with growing industry that is quickly moving from LIC to HIC.  LIC (Low Income Country) - A country with a low level of economic development.  Stakeholder - A person or group of people that have an interest in and/or will be affected by something.  >The life expectancy in Indonesia is 69 compared to The UK at 82.  >Indonesia is a NEE and needs to export palm oil to develop their economy and provide people with a better quality of life.  >However, palm oil plantations threaten indigenous peoples' traditional way of life and contribute to global warming and climate change.
	Lesson 9 - To know How we can help save the orangutan	Le	esson 10 - To know how to make an Informed decision about banning palm oil
39 40 41 42 43	>International Animal Rescue has 6 rescue centres in Borneo saving over 100 Orangutans. >There are 9 National Parks in Borneo that are protected forests where Orangutans can be relocated. >The rate of deforestation in Borneo increased in the 1960s due to mechanisation — the introduction of machines such as chain saws to chop down trees. >In the 1990s the new Government of Indonesia gave out lots of licenses to businesses to clear forests. >In 2015 alone, over 100,00 forest fires were used to clear the forests.	45	Reasons for banning palm oil include: endangering Orangutans and other species; loss of biodiversity; destruction of forest which leads to global warming and climate change.  Reasons for continuing to produce palm oil include: provides an income for local people; income for the Government to then spend on health, education, transport for the people; sustainable production is possible – although currently only 10% of companies use sustainable palm oil.





Topic: 'Should we continue to use natural resources?'

	Lesson 1 - To know the different kinds of natural resources		Lesson 2 - To know how rocks form
1 2 3	Natural Resources - Things found in the natural environment, like minerals or plants, that humans make use of to improve their standard of living.  Non-renewable Resources - Resources which are limited and so will run out one day or cannot be replaced during our lifetime, such as natural gas, coal.  Renewable Resources - Resources that can be replaced over time and will not run out, such as water and wind.	4 5 6 7	Igneous Rock – rocks formed by cooling magma/lava, e.g. basalt or granite.  Metamorphic Rock – rocks formed through heat and pressure, e.g. marble or slate.  Sedimentary Rock – Solid material that is moved and deposited, e.g. sand and gravel.  >Any type of rock can become metamorphic rock.
	Lesson 3 - To know how soil benefits people		Lesson 4 - To understand how people use water
8 9 10	Soil – the upper layer of earth, where plants grow.  >Soil provides minerals and water plants need to grow, without soil crops cannot be grown.  >Soil is not a renewable resource as the earth has only a limited amount of land that is suitable for crops.	11 12 13 14 15	>97% of all water on Earth is found in oceans with the remaining 3% freshwater  Aquifer- a natural underground rock structure, which holds groundwater.  >Ogallala is one of the world's largest aquifers, located in the USA.  >Rainfall is unreliable here and drought occurs regularly.  >Most of the water in Ogallala is at least 8000 years old, with thousands of litres of water pumped out of it each day to support farming, resulting in the water level dropping by 30 metres.
	Lesson 5 - To know the benefits and challenges of oil use		Lesson 6 - To know what resources are used to generate electricity
16 17 18 19 20	Crude Oil – the term used to describe the oil extracted from the ground.  Fossil Fuel - a natural fuel, such as coal, oil and gas, formed in the geological past from the remains of living organisms.  >Oil is an important part of everyday life e.g. to fuel cars, produce plastics, even clothes.  >The USA consumes 3 times more oil than the UK.  >Oil is a non-renewable energy source which can cause air and water pollution and contributes to global warming.	21 22 23 24 25 26 27	Solar power – the conversion of the sun's energy into electricity.  Nuclear power – the energy released by a nuclear reaction, especially by fission of fusion.  Geothermal energy – energy generated by heat stored deep in the Earth.  Wind power – electrical energy produced from the power of the wind using wind turbines.  Tidal energy – electricity generated from the tidal movement of the sea.  Hydroelectric power – electricity generated by turbines that are driven by moving water (usually in a dam).  Biomass – burns plants, trees and organic matter to heat steam to drive turbines.

	Lesson 7 - To know the difference between the greenhouse effect and the enhanced greenhouse effect		Lesson 8 - To know the global impacts of climate change
28	Climate Change - a long-term change in the Earth's climate.	35	Extreme weather – when a weather event is significantly different from the
29	<b>Global Warming</b> – Increases in the Earth's average temperature over time.		average or usual weather pattern and is especially severe or unseasonal.
30	<b>Greenhouse Effect</b> – How the atmosphere traps in heat and keeps the earth	36	>There are a variety of negative impacts of climate change, e.g. less sea ice in
	warm.		Polar regions will result in a loss of plants and animals (such as Polar Bears).
31	>If the greenhouse effect didn't exist, the average temperature on Earth would be around -18°.	37	>There are a variety of positive impacts of climate change, e.g. increased rain and warmer temperatures are likely to improve crop yields.
32	<b>Enhanced Greenhouse Effect</b> – the warming of the Earth's atmosphere due to human activity increasing the proportion of greenhouse gases.		
33	>Carbon dioxide, methane and nitrous oxide are greenhouse gases.		
34	>Sources of greenhouse gases include deforestation, vehicles and power		
	stations.		
	Lesson 9 - To know the impacts of climate change on the UK		Lesson 10 - To know how climate change can be managed
38	Climate refugee – a person who has been forced to leave their home as a result	42	Mitigation – action taken to reduce the long-term risk from natural hazards
	of the effects of climate change on their environment.		such as international agreements to reduce greenhouse gas emissions.
39	>7 of the top 10 hottest days on record in the UK have occurred since the year	43	Adaptation – actions taken to change to natural events such as climate change,
	2000.		to reduce the impacts.
40	>Climate change will have many negative impacts on the UK, e.g. increased	44	>The Paris Agreement is a legally binding international treaty on climate change
	frequency of heatwaves, storm events and flooding.		adopted by 196 parties at COP 21 in Paris in December 2015.
41	>Climate change can provide some opportunities for the UK, e.g. growing a	45	>The aim of the Paris Agreement is to limit global warming to well below 2°C.
	wider variety of crops, increase in tourism.		
	Lesson 11 - To know what we can do about climate change		
46	Carbon footprint – a measurement of the greenhouse gases we individually		
	produce.		
47	<b>Conservation</b> – managing the environment in order to preserve, protect or restore it.		
48	>There are many ways we can reduce our carbon footprint, e.g. use less plastic,		
	recycle & reuse, turn lights off when you leave a room, use energy efficient		
	products.		





Topic: 'Is Iceland the best place to live in the world?'

	Lesson 1 - To know how to map the tectonic features of Iceland		Lesson 2 - To know the demographics of Iceland
1 2 3 4	Grid References – numbers on grid lines to locate places (4 and 6 figure grid references).  Tectonic features – features caused by the movement of tectonic plates.  >Iceland is tectonic because it lies on the Mid-Atlantic Ridge where the North American Plate is moving away from the Eurasian plate.  >Iceland has many tectonic features which include volcanoes (e.g. Katla and Hekla); geysers (e.g. Strokkur); geothermal pools (e.g. the Blue Lagoon);  Thingvellir National Park.	5 6 7 8 9 10 11	Demography – the study of statistics such as births, deaths, income, which illustrate the changing structure of a population.  Population distribution – how spread out people are.  >The majority of Iceland is sparsely populated, 60% of the Icelandic population live in Reykjavik in the south west.  Population pyramids – diagrams, essentially bar graphs that show the structure of a population by sex and age category.  Birth rate – the number of births in a year per 1000 of the total population.  Death rate – the number of deaths in a year per 1000 of the total population.  Life expectancy – average number of years a person might be expected to live.  > Iceland has a decreasing birth rate and low death rate with a high life expectancy (of 82 years).
	Lesson 3 - To know what it is like to live in Iceland		Lesson 4 - To know the benefits of living in Iceland
13 14 15 16	Circle of south of the Antarctic Circle, when the sun remains visible at the local midnight.  Polar nights – where night time lasts for more than 24 hours occurring in places north of the Arctic Circle of south of the Antarctic Circle.	17 18 19 20 21	Tourism – the business of providing services such as transport, places to stay or entertainment for people who are on holiday.  Geothermal energy – heat from underground is used to make electricity.  Economy – the wealth and resources of a country in terms of the goods that are produced and consumed there.  Sustainability – when materials and resources are used in a way that will balance the needs of the present without compromising the future.  >Iceland benefits from being located on a plate boundary for example fertile soils, tourism and geothermal energy.

	Lesson 5 - To understand the benefits of geothermal energy		Lesson 6 - To know Why people visit Iceland
22 23 24 25	Lido — a public open-air swimming pool.  >The Jubilee Poll in Penzance, Cornwall is the first lido in the UK to be geothermally heated.  >Geothermal energy is a renewable source of power and heat that runs 24 hours a day, whatever the weather with very little visual or surface impact.  >Geothermal energy provides 27% of Iceland's electricity and could supply the UK with 20% of its electricity needs.	26 27 28 29 30	Tourism boom – situation in which a nation becomes particularly attractive to visitors from other countries.  >Tourism is rapidly increasing in Iceland, in 2016 the number of visitors increased by 40% up to 7 million people.  >Tourism accounts for 10% of Iceland's economy.  >Activities in Iceland for tourists include whale watching, mountain biking, bird watching, range of water sports and diving.  >Popular tourists attractions include the Golden Circle route (including Thingvellir, Strokkur and Gulfoss waterfall), the Blue Lagoon, Skógafoss, Solheimajökull glacier and Vik (a black sand beach).
	Lesson 7 - To understand whether Tourism will ruin Iceland		Lesson 8 - To know what happened in Iceland in 2010
31 32 33	be affected by something.  >There are many benefits of tourism e.g. provides 31,500 jobs and contributes to Iceland's economy which increases investment in infrastructure and services.	34 35 36 37	>The first eruption of Eyjafjallajökull happened on 20 <sup>th</sup> March 2010 and the second eruption happened on 14 <sup>th</sup> April 2010.  >The fine ash particles from the eruption rose into the atmosphere around 27,000 feet which is about the same height as airplanes fly.  >Flights were banned across Europe within 4 days of the eruption because ash can cause engine failure.  Flight bans led to thousands of tourists being stranded, medical supplies couldn't be flown to where they were needed and it cost British airports £10 million a day.
	Lesson 9 - To understand whether the Eyjafjallajökull eruption was a local or international disaster		Lesson 10 - To know what happened during the Fagradalsfjall eruption
38 39 40 41	Subglacial volcano — a volcano that is located either underneath a glacier itself or under the water in a lake which is inside a glacier.  Flash flood — a sudden flood, when intense rain falls in a short period of time.  >Local impacts in Iceland included glacial ice melting causing flash flooding and heavy ash fall damaged agricultural land.	42 43 44 45 46	Constructive plate margin – two plates are moving apart (diverging) where rising magma adds new material to the plate margin.  >Iceland recorded more than 50,000 earthquakes in the 3 weeks before the eruption several exceeding magnitude 5.0.  >The eruption occurred on Friday 19 <sup>th</sup> March, 2021, about 20 miles southwest of Reykjavik.  >The eruption was small and in an uninhabited area so didn't cause many problems for Iceland.  >The main hazard is the potential danger of sulphur dioxide gas, the eruption also spewed more than 10 million square feet of lava.

Lesson 11 - To understand How effective Iceland are at managing tectonic hazard
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- 47 Mitigation action taken to reduce the long-term risk from natural hazards, such as earthquake proof buildings.
- 48 | **Prediction** using historical evidence and monitoring to make accurate predictions about when a hazard might happen.
- 49 **Evacuation** moving people from a dangerous place to somewhere safe.
- >It is impossible to predict the exact time and date of a volcanic eruption or an earthquake, however you are able, due to monitoring, to indicate that a volcanic eruption is imminent.
- >Icelandic volcanoes are closely monitored with the use of modern technology to detect any changes in the volcano e.g. satellites monitor the shape of the volcano, sensors measure gas levels and seismometers detect earthquakes.
- 52 | >Hazard maps are created to show areas mostly likely to be affected by the range of hazards posed by a volcanic eruption.
- 53 >People living in Iceland are educated in how to respond and emergency services are trained to in how to respond specifically to these hazards.
- 54 | >Evacuation procedures are in place and a text message system informs people to evacuate an area when necessary.