Subject: Geography

Year: 7

Half term 1	**Half term 2**	**Half term 3**	**Half term 4**	**Half term 5**	**Half term 6**
Population Change What is Population? - Population definition. Calculating population. Factors affecting where people can live. What is population density? - Why people live in groups. Definitions dense and sparsely populated. Calculating population density with examples. What is population distribution? - Why population is not spread evenly. Physical and human factors that affect distribution with examples. How has the world's population changed? - Skill – pictograph to show population change. Understanding exponential growth. Why has the world's population changed? - Definitions of birth and death rates & natural increase/decrease. Exploration in to why some countries have a very high birth rate (social and economic reasons) What is Migration? - Push and pull factors. Migration definitions. Rural – urban migration and voluntary/forced migration.	**JOURNEY AROUND THE WORLD** What is latitude and longitude? - Why understanding the difference between latitude and longitude is important. - How latitude and longitude is calculated - Learning how to use latitude and longitude Where in the world….. - Continents of the world - The world's major rivers - The world's major mountain ranges - The world's oceans - The world's major deserts Countries of Europe - The names and location of the countries of Europe. Countries of Africa - The names and location of the countries of Africa Countries of Asia - The names and location of the countries of Asia Countries of North and South America - The names and location of the	**MAP SKILLS** Direction - How we use direction in geography. - The compass rose. - Learning how to use direction effectively. Symbols - What symbols are (abbreviations, words, pictures, colour) - Why symbols are needed on maps. - Learning and using a selection of Ordnance Survey map symbols. Four Figure grid references - What four figure grid references are - Why four figure grid references are used. - How to use four figure grid references. Six figure grid references - What six figure grid references are - Why six figure grid references are used. - How to use four figure grid references. Scale and distance - How the scale line and scale ratios are used. - How to use scale on maps How is height shown on maps	**ENERGY SUPPLY AND LIVING WITH CLIMATE CHANGE** What are resources? - Different types of resources. What fossil fuels are and their formation. How does a thermal power station work? - Extraction, transportation, furnace, boiler, generation, the national grid. Should we allow fracking in the UK? - Advantages and disadvantages of fracking and then a summary. Local example to be used. Coal – is it really a problem? - What are the issues associated with the extraction of coal. What are the issues with oil? - What are the issues associated with the extraction of oil. Case study example (Deepwater Horizon)- exploration of the environmental impacts. What is the cause of the climate catastrophe? - The causes of climate change including the burning of fossil fuels, livestock production and deforestation. The effects of climate change?	**EXTREME WEATHER** Why does it rain? - Recipe for rainfall and types of rain (relief, convectional, frontal). What causes wind? - What are convection currents/thermals. Introduction to global atmospheric circulation. Beaufort scale and measuring wind. What are air masses? - Definition of air masses and how different air masses affect the weather and climate in the UK. Why is flood water so dangerous? - Exploring the dangers of flooding (loss of life, water contamination, economic loss etc) Carlisle – a case study - Cause, effects and responses of flooding in Carlisle. How do tropical storms form? - The anatomy of a tropical storm, their formation, distribution and categorisation. Typhoon Haiyan – A case study - Cause, effects and responses to a tropical storm. How can we protect ourselves against tropical storms?	**HOW CAN I LIVE MORE SUSTAINABLY?** How are we damaging the planet? - A short study on all the resources we use on a daily basis and how human activities have an impact on various ecosystems around the world. Independent pupil investigation in to carbon footprints. - Use of the carbon footprint calculator and analysis of the questions. Independent enquiry work. - A selection of structured investigations to be completed. - Investigations will be either based on food, fashion or good that are bought. - The sequence will include an introduction, data collection, data presentation skills and a conclusion with a pledge to change lifestyle choices. - Presentations will be delivered by pupils. How are humans eating their way to extinction. - An investigation in to how human eating habits are affecting the environment and

What are Megacities? - What are they and what issues does overpopulation cause.	countries of North and South America. What is the United Kingdom like? - What is the difference between the UK, GB and the British Isles. - The physical and human geography of the UK.	- How height is shown on a map (layer colouring, spot heights, contours) - How to use and understand how height is shown on a map. - Contour patterns OS map skills - What is our local area like? - How to use Ordnance Survey maps effectively.	- A range of effects of climate change to be explored including forest fires, rising sea levels, flooding, effect on food production, disease, weather. Climate change – what are the facts/ - Fact finding. Collecting information and data regarding the impact of climate change on social economic and environmental geography. What is our carbon footprint? - Definition and then the calculation of individual carbon footprints. Exploration in to the factors that affect the footprint. How can we conserve resources? Reduce, re-use, recycle. Range of different strategies to conserve resources dependent on pupil experiences (e.g. loft insulation, double glazing, purchasing smaller cars, switching lights off etc)	- House design, evacuation and preparation for tropical storms. What are tornadoes? How do tornadoes form. The difference between tornadoes and tropical storms. The distribution of tornadoes and the effects that they have on peoples lives.	threatening human health. Solving a real life problem – buying a car. Investigation in to a range of environmental issues.