Mountbatten Primary School Curriculum knowledge



Topic: Volcanoes and Earthquakes (Geography)

Term: Spring 2

Year Group: 4

NC OBJECTIVES	KEY KNOWLEDGE AND VOCABULARY
 Physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle Human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water Develop geographical knowledge, understanding and skills to enhance their locational and place knowledge 	 Know that the Earth is made up of mantle, inner core, outer core and the crust Know that the mantle is approximately 2897km thick and is made of a solid, rocky substance called molter rock or magma. This is what escapes when a volcano erupts. Know that the inner core is a solid layer and is made of iron and nickel. It is the hottest part of the earth and can reach temperatures of up to 5500°C Know that the outer core is a liquid layer made out of molten iron and nickel. This liquid metal creates the earth's magnetic field. Know that the outer layer is the outer layer of the earth. It varies in thickness from 0 – 60km thick. It is not even and is made up of pieces which overlap to cover the entire planet. These pieces are called 'tectonic plates'. Know that tectonic plates fit together like a jigsaw puzzle and they sometimes move Know that tending of Fire' is an area of the Pacific Ocean that is shaped like a horseshoe. It is home to 90% of the world's carthquakes and 75% of the world's volcances Know there are more than 1500 active volcances. Know there are more than 1500 active volcances around the world Know when significant volcance around here it is extremely hot. Know that rocks actually met and form magma, which makes up the mantle of the earth. Know that the crust. This pressure can sometimes cause the mantle to leak out onto the surface of the earth, which is the volcano Know that the magma reservoir is a large underground pool of liquid rock found beneath the surface of the Earth Know that the magma reservoir is a large underground pool of liquid rock found beneath the surface of the Earth Know that the magma reservoir is a large underground pool of liquid rock found beneath the surface of the Earth Know that the magma reservoir is a large underground pool of liquid rock found beneath the surface of the Earth Know that the magma reservoir is a large underground

 Know that the plates are moving in different directions and at different speeds. Sor past each other and cause these earthquakes and volcanic eruptions Know that the edges of plates are called faults. Faults can rub together, push towa each other Know that the plates can move in three different ways – rubbing together, towards other Know that earthquakes happen frequently in the Ring of Fire Know that there are two ways to measure the power of an earthquake. Machines of the power of an earthquake at its epicentre on a scale called the Richter scale. Ar scale, and this is based on people's observations during an earthquake Use an atlas to locate significant earthquakes around the world Know the damage to the physical and human environment that can occur due to Use satellite images and aerial photographs to identify the effects of a volcano a 	ard each other, or pull away from each other and away from each called seismographs measure nother measure is the Mercalli
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