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|  *DT* FLE Y3/4 Making Volcanoes |
| How to Make a Paper Mache Volcano - Viva VeltoroSt John's CofE Primary School - Design Technology (DT)What Happens When a Volcano Erupts?   |
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| **Forever Facts** |
| To understand how pneumatic systems work. |
| Develop and use knowledge of how to construct strong, stiff shell structures.  |
| Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes. |
| Know and use technical vocabulary relevant to the project. |

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| **Skills** |
| I can investigate how pneumatic systems work and incorporate this in my design. |
| Use annotated sketches, prototypes, final product sketches and pattern pieces; communication technology, to develop and communicate ideas. |
| Plan the main stages of making |
| Select from and use a range of appropriate utensils, tools and equipment with some accuracy related to their product.To make and evaluate a model of an erupting volcano in small groups. |
| Select from and use finishing techniques suitable for the product they are creating. |
| Test their product against the original design criteria and with the intended user.  |
| Evaluate the ongoing work and the final product with reference to the design criteria and the views of others. |

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| **Exciting Books** |
| Everything: Volcanoes and Earthquakes (National Geographic Kids) |
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| **Subject Specific Vocabulary** |
| pneumatics | Pneumatics is the use of compressed air for mechanical motion |
| volcano | A volcano is an opening in the Earth's crust that allows magma, hot ash and gases to escape. |
| mechanism | A mechanism modifies input forces and movement into a set of output forces and movement that the user desires. |
| design | A plan or drawing produced to show the look and function of something before it’s made. |
| evaluate | Evaluating is the process of deciding if you've done something the best way, and looking at what could be improved. |

**SMSC:** *Spiritual – reflect on self-awareness. Moral - learning about our responsibilities within a group. Social – many opportunities to work collaboratively to share and reflect on their own values and opinions. Cultural - value diversity when working in groups.* |
| Our Endpoint |