

Design and Technology Programmes of Study linked to Cross-Curriculum Topic Plans 2019-20

Upper Key Stage 2 Knowledge, Understanding and Skills:

- **Structures** – *Understand the principles of triangulation in different structures; recognise that under certain circumstances structures can fail when loaded (become familiar with techniques that reinforce and strengthen structures); understand that some structures are stabilised by having a wide stable base – e.g. the use of suspension cables.*
- **Textiles** - *Know that a designer needs to consider appearance, function, cost and safety when designing products; know that many different materials can be used on one product – e.g. slipper – some to stiffen, some to provide a hard-wearing surface and some for appearance; know that patterns/templates can be used many times and that this ensures consistency in size*
- **Food** – *Know that all food is grown, reared and caught in the UK, Europe and rest of the world; know that seasons may affect the food available; how food is processed into ingredients that can be eaten or used in cooking; know how to prepare a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat-source.*
- **Mechanisms- Control Mechanisms, Electricity, belts and pulleys, Levers and Slider**

	Terms 1 or 2:	Terms 3 or 4:	Terms 5 or 6:
Year 5 History / Geography topic:	Mountains	Fair Trade	Ancient Greeks
Year 5 DT skill focus:	Mechanisms	Food	Cams
Ideas:	<i>Belts and Pulleys</i>	<i>Cereal Bars</i>	<i>Theatre</i>
Year 6 History / Geography topic:	World War 2	Volcanoes	Avebury
Year 6 DT skill focus:	Structures	Electricity, Belts and Gears	Textiles
Ideas:	<i>Anderson shelter models</i>	<i>Vehicles</i>	<i>Textile challenge</i>

