

DESIGN & TECHNOLOGY			
	AUTUMN FOCUS	SPRING FOCUS	SUMMER FOCUS
YEAR 4	<p>Cooking & Nutrition (soups & stews) Use pulses/beans from Egypt. Have we always been what we eat?</p> <p>VISIT/TRIP: Ashmolean Museum, Oxford</p> <p>DISPLAY: Art focus – hieroglyphics, amulets and Death Masks</p> <p>FINAL PRODUCT: Stew</p> <p>Opportunities for Exploring Diversity: Enslavement within the Egyptian times – linked to labour, hierarchy and lifestyle in comparison to Pharaohs.</p>	<p>Roman Buildings (Construction and Architecture)</p> <p>VISIT/TRIP: Verulamium Museum, St Albans</p> <p>DISPLAY: Range of Roman villas with mosaic</p> <p>FINAL PRODUCT: Roman Villa model</p> <p>Opportunities for Exploring Diversity: Roman temples (sacellum)</p>	<p>Robotics: Circuits, switches and torches.</p> <p>VISIT/TRIP: STEM ambassador visit: LEGO Robotics</p> <p>DISPLAY: Circuits</p> <p>FINAL PRODUCT: A light up robot</p> <p>Opportunities for Exploring Diversity: Lewis Howard Latimer inventor best known for patenting carbon filaments for the light bulb and the telephone.</p>
	<p>Mahmoud Mukhtar (Egyptian sculptor)</p> <p>The Story of Tutankhamun – Patricia Cleveland-Peck</p> <p>Horrible Histories – Awesome Egyptians</p> <p>Horrible Histories – Fabulous Pharaohs</p> <p>www.eatingwell.com/recipe/278578/egyptian-lentil-soup/</p> <p>www.nhs.uk/live-well/eat-well/</p>	<p>Marcus Vitruvius Pollio – Roman architect</p> <p>www.stem.org.uk/resources/community/collection/285271/structures</p>	<p>All About Robot: A Kids Picture Book about Robots – Emma Jacobs</p> <p>National Geographic Kids – Robots</p> <p>www.juniorstem.co.uk/</p> <p>www.dkfindout.com/uk/science/electricity/circuits/</p>
Skills	<p>Cooking</p> <ul style="list-style-type: none"> Understand and apply the principles of a healthy and varied diet. Prepare and cook a variety of predominately savoury dishes using a range of cooking techniques. 	<p>Sculpture</p> <ul style="list-style-type: none"> Generate, develop, model and communicate their ideas through discussions, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. 	<p>Mechanical Engineering</p> <ul style="list-style-type: none"> Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.

	<ul style="list-style-type: none"> Understand seasonality, and where and how a variety of ingredients are grown, reared, caught and processed. 	<ul style="list-style-type: none"> Select from and use a wider range of tools and equipment to perform practical tasks accurately. Select from and use a wider range of materials and components, including construction materials and textiles according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand how key events and individuals in design and technology have helped to shape the world. 	<ul style="list-style-type: none"> Select from and use a wider range of tools and equipment to perform practical tasks accurately. Select from and use a wider range of materials and components, including construction materials and textiles according to their functional properties and aesthetic qualities. Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand and use electrical systems in their products (for example, series circuits, switches, bulbs, buzzers and motors). They apply their understanding of computing to program, monitor and control their products.
Key Vocabulary	Balanced diet, healthy eating, mix, cut, slice, seasons, food groups (diary, protein, carbohydrates, fats, fruit and vegetables), seasonal, savoury, simmer , steam, knead, season, rise , menu, palate, stew ,	Architecture , drawing, painting, sculpture, colour, pattern, line, texture, shade, tone, line, shape, form, space, difference, similarities, Basilica, architrave, villa, amphitheatre, Pantheon, dentils, plinth, portico, reveal, stylobate, velatium, exedra, caementa	Electricity, system, robot, circuit , battery, appliances, cell , wire, construction, bulb, buzzer, switch, safety, sign, insulator, conductor , wood, rubber, plastic, cardboard, metal, glass, water, open circuit, closed circuit , power, source , lamp, build, design, tower, stack , attach, connect, fuse
Opportunities for Learning / Cross Curricular	<p>History – Ancient Egypt</p> <p>Geography – Locating Egypt on a map</p> <p>PSHE – enslavement</p> <p>Science – Healthy Eating and Balanced Diets</p>	<p>History – Romans</p> <p>RE – Roman temples</p> <p>Science –STEM learning: Structures</p>	<p>History – Lewis Howard Latimer</p> <p>Science – Electricity</p>
Learning Overview / WALTs	<p>Week 1 WALA: healthy eating food groups</p> <p>Week 2 WALA: Ancient Egyptian Food <i>What did the different classes eat?</i></p> <p>Week 3 WALT: write a healthy eating recipe inspired by the Ancient Egyptians.</p> <p>Week 4 WALT: make a basic dough and cook flatbreads.</p>	<p>Week 1 WALT: Use tone, texture, shade and pattern.</p> <p>Week 2 WALT: Research the different features of Roman architecture. KQ: What were the strengths of Roman architecture? <i>What is special about the architecture of Roman Temples?</i></p> <p>Week 3 WALT: Investigate materials.</p> <p>Week 4 and 5 WALT: Make a model of a Roman villa.</p>	<p>Week 1 WALH: An electrical circuit works and its component. <i>How did Lewis Howard Latimer influence science?</i></p> <p>Week 2 WALT: Design an electrical object.</p> <p>Week 3 WALT: Create our own electrical circuit.</p> <p>Week 4 WALT: Make a variety of switches.</p> <p>Week 5</p>

Week 5

KQ: where in the world do vegetables come from?

Week 6

WALT: use knives to cut vegetables for a stew

Week 7:

WALT: evaluate our own work

Week 6

WALT: Evaluate our Roman villas.

WALT: Make an electrical object (alarmed box).

Week 6

WALT: Evaluate our electrical object.