

Design and Technology Key stage 3 and 4 Long Term Plan

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of domestic and local contexts, and industrial contexts.

Autumn 14	Spring 15	Summer 15
<p>THEME It's a mystery (Myths and Legends)</p> <p>Designing and making 3D novelty ornaments</p> <p>Possible ideas in equal unit- Novelties 3.7.1</p> <p>NC- Focus on - KS3 Design and Technology Design- develop and communicate design ideas using different methods Make- select from and use tools, techniques, processes and equipment Evaluate- analyses the work of other professionals both past and present. Technical Knowledge- Understand and use the properties of materials</p>	<p>THEME Seasons in the Sun (Weather and Seasons)</p> <p>Designing and making Kites</p> <p>Possible ideas in equal unit- Kites 3.8.1</p> <p>NC- Focus on - KS3 Design and Technology Design- identify and solve their own design problems and reformulates problems given to them. Make- select from and use tools, techniques, processes and equipment Evaluate- test, evaluate and refine their ideas and products Technical Knowledge- Understand and use the properties of materials</p>	<p>THEME The Circus (Our body and senses)</p> <p>Healthy snacks and healthy eating.</p> <p>Possible ideas in equal unit- Snacks 3.7.5</p> <p>NC- Focus on - Cooking and Nutrition - understand and apply the principles of health and nutrition' - Cook a repertoire of savoury dishes'</p>

Autumn 15	Spring 16	Summer 16
<p style="text-align: center;"><u>THEME</u> Take a walk on the wild side (Living things)</p> <p style="text-align: center;">Using a computer to design a t-shirt</p> <p>Possible ideas in equal unit- Tee shirt challenge 3.8.4</p> <p>NC- Focus on - KS3 Design and Technology Design- use a variety of approaches to generate creative ideas Make- select from and use tools, techniques, processes and equipment, including computer aided manufacture Evaluate- investigate new and emerging technologies Technical Knowledge- Understand and use the properties of materials</p>	<p style="text-align: center;"><u>THEME</u> Rule the World (Empire/Invaders/Settlers)</p> <p style="text-align: center;">Design a uniform for a purpose</p> <p>Possible ideas in equal unit- Finding identity 3.9.4</p> <p>NC- Focus on - KS3 Design and Technology Design- use research and exploration to identify and understand user needs Make- select from and use a wider, more complex range of materials, taking into account their properties. Evaluate- test, evaluate and refine their ideas and products against a specification. Technical Knowledge- Understand and use the properties of materials</p>	<p style="text-align: center;"><u>THEME</u> We are the champions (Olympics)</p> <p style="text-align: center;">A healthy and varied diet</p> <p>NC- Focus on - Cooking and Nutrition - understand and apply the principles of health and nutrition' - Cook a repertoire of savoury dishes so they can feed themselves and others - become confident in a range of cooking techniques.</p>

Autumn 16	Spring 17	Summer 17
<p data-bbox="434 248 546 276"><u>THEME</u></p> <p data-bbox="360 288 620 347">Set fire to the rain (Hot and cold climates)</p> <p data-bbox="309 389 674 416">Foods around the world</p> <p data-bbox="188 523 779 775">NC- Focus on - Cooking and Nutrition - Cook a repertoire of savoury dishes so they can feed themselves and others - become confident in a range of cooking techniques. - understand the source, seasonality and characteristics of a broad range of ingredients</p>	<p data-bbox="1050 204 1187 231">Spring 17</p> <p data-bbox="1088 248 1200 276"><u>THEME</u></p> <p data-bbox="1050 288 1189 347">Rocket Man (Space)</p> <p data-bbox="1021 389 1216 416">Making light</p> <p data-bbox="815 480 1352 539">Possible ideas in equal unit- Personal light source 3.8.5</p> <p data-bbox="815 596 1397 775">NC- Focus on - KS3 Design and Technology Design- develop specifications to inform the design of innovation, functional, appealing products that respond to needs in a variety of situations Make- select from and use a wider, more complex range of materials, taking into account their properties. Evaluate- understand developments in design and technology, its impact on individuals, society and the environment. Technical Knowledge- understand how electrical and electronic systems can be powered and used in their products.</p>	<p data-bbox="1666 204 1825 231">Summer 17</p> <p data-bbox="1688 248 1800 276"><u>THEME</u></p> <p data-bbox="1532 288 1957 347">We've got a ticket to ride (Transport/Fairgrounds/Theme parks)</p> <p data-bbox="1637 389 1854 416">Moving models</p> <p data-bbox="1451 432 2040 459">Using wheels and axles or mechanical movement</p> <p data-bbox="1442 560 2047 887">NC- Focus on - KS3 Design and Technology Design- develop and communicate design ideas using different methods Make- select from and use tools, techniques, processes and equipment Evaluate- test, evaluate and refine their ideas Technical Knowledge- Understand how more advanced mechanical systems used in their products enable changes in movement and force.</p>

Autumn 17	Spring 18	Summer 18
<p data-bbox="436 293 546 320"><u>THEME</u></p> <p data-bbox="392 331 591 392">Octopus's Garden (Under the sea)</p> <p data-bbox="380 435 602 470">Healthy foods</p> <p data-bbox="188 523 786 775">NC- Focus on - Cooking and Nutrition - Cook a repertoire of savoury dishes so they can feed themselves and others - become confident in a range of cooking techniques. - understand the source, seasonality and characteristics of a broad range of ingredients</p>	<p data-bbox="1064 293 1173 320"><u>THEME</u></p> <p data-bbox="922 331 1314 392">Wherever I lay my hat is my home. (Leeds past/present/future)</p> <p data-bbox="846 435 1391 470">How items where made in the past</p> <p data-bbox="958 523 1279 555">Times Past unit 4.11.5</p> <p data-bbox="817 564 1397 596">Possible ideas in equal unit- Times Past 4.11.5</p> <p data-bbox="817 649 1391 978">NC- Focus on - KS3 Design and Technology Design- develop and communicate design ideas using different methods Make- select from and use tools, techniques, processes and equipment Evaluate- analyses the work of other professionals both past and present. Technical Knowledge- Understand and use the properties of materials</p>	<p data-bbox="1691 293 1800 320"><u>THEME</u></p> <p data-bbox="1592 331 1899 392">The Long and Winding Road (Journey and Places)</p> <p data-bbox="1583 435 1912 470">Making your own bag</p> <p data-bbox="1444 523 2013 555">Possible ideas in equal unit- Carry it all 3.7.3</p> <p data-bbox="1444 608 2047 1042">NC- Focus on - KS3 Design and Technology Design- develop specifications to inform the design of innovation, functional, appealing products that respond to needs in a variety of situations Make- select from and use tools, techniques, processes and equipment Evaluate- - understand developments in design and technology, its impact on individuals, society and the environment. Technical Knowledge- Understand and use the properties of materials</p>

Autumn 18	Spring 19	Summer 19
<p style="text-align: center;"><u>THEME</u> Food Glorious Food (Food from around the world)</p> <p style="text-align: center;">Savoury dishes from different cuisines</p> <p>NC- Focus on - Cooking and Nutrition - Cook a repertoire of savoury dishes so they can feed themselves and others - become confident in a range of cooking techniques. - understand the source, seasonality and characteristics of a broad range of ingredients</p>	<p style="text-align: center;"><u>THEME</u> Two Tribes (Tribal traditions and other cultures)</p> <p style="text-align: center;">Different styles</p> <p style="text-align: center;">Possible ideas in equal unit- In the style of...unit 4.11.4</p> <p>NC- Focus on - KS3 Design and Technology Design- develop and communicate design ideas using different methods Make- select from and use tools, techniques, processes and equipment Evaluate- analyses the work of other professionals both past and present. Technical Knowledge- Understand and use the properties of materials</p>	<p style="text-align: center;"><u>THEME</u> Something sport related</p> <p style="text-align: center;">Design and make packaging for a product</p> <p>NC- Focus on - KS3 Design and Technology Design- develop specifications to inform the design of innovation, functional, appealing products that respond to needs in a variety of situations Make- select from and use tools, techniques, processes and equipment Evaluate- - understand developments in design and technology, its impact on individuals, society and the environment. Technical Knowledge- Understand and use the properties of materials</p>