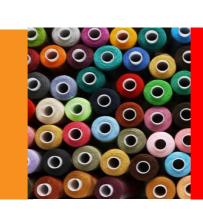






Design and Technology





Design and Technology Mile Post 1

Key Skills

National Curriculum		IPC learning Goals	IPC Themes
Design purposeful,	1.2	Be able to plan what they are going	
functional, appealing		to make	
products for themselves			
and other users based on			
design criteria			
Generate, develop, model	1.3	Be able to describe their plans in	
and communicate their		pictures and words	
ideas through talking,			
drawing, templates, mock-			
ups and, where			
appropriate, information			
and communication			
technology			
Select from and use a range	1.4	Be able to use simple tools and	
of tools and equipment to		materials to make products	
perform practical tasks	1.5	Be able to choose appropriate tools	
	1.5	and materials for their tasks	
Select from and use a wide	1.4	Be able to use simple tools and	
variety of materials and		materials to make products	
components, including	1.5	Be able to choose appropriate tools	
construction materials,		and materials for their tasks	
textiles and ingredients,			
according to their			
characteristics			
Explore and evaluate a	1.7	Be able to communicate on the	
range of existing products		usefulness of products in everyday	
	1.6	USE	
Evaluate their ideas and	1.6	Be able to comment on their own plans and products and suggest	
products against design		areas of improvement	
Criteria		F	
Build structures, exploring			
how they can be made			
stronger, stiffer and more			
stable Evaluation and use			
Explore and use			
mechanisms, in their			
products Use the basis principles of a			
Use the basic principles of a healthy and varied diet to			
_			
prepare dishes Understand where food			
comes from			
comes from			

Areas of design				
Junk modeling Food technology				
Resistant materials Textiles				
Digital design		Other		

Pupil Progress	EYFS	Y1
Pupils working significantly above age related expectations		
Pupils working significantly below age related expectations		



Design and Technology Mile Post 2

Key Skills

National Curriculum		IDC learning Cools	IDC Thomas
	2.1	IPC learning Goals Know that the way in which products	IPC Themes
Use research and develop	2.1	in everyday use are designed and	
design criteria to inform the		made affects their usefulness	
design of innovative,		made affects their decidiness	
functional, appealing	2.2	Be bale to design and make products	
products that are fit for		to meet specific needs	
purpose, aimed at	2.7	Be able to identify the ways in which	
particular individuals or		products in everyday use meet	
groups		specific needs	
Generate, develop, model	2.3	Be able to make useable plans	
and communicate their			
ideas through discussion,			
annotated sketches, cross-			
sectional and exploded	2.4	Be able to make and use labeled	
diagrams, prototypes,		sketches as designs	
pattern pieces and			
computer-aided design			
computer-aided design			
Select from and use a wider	2.5	Be able to use simple tools and	
range of tools and	2.3	equipment with some accuracy	
_		equipment with some accuracy	
equipment to perform			
practical tasks			
Select from and use a wider			
variety of materials and			
components, including			
construction materials,			
textiles and ingredients,			
according to their			
functional properties and			
aesthetic qualities			
characteristics			
Investigate and analyse a	2.7	Be able to identify the ways in which	
range of existing products		products in everyday use meet	
		specific needs	
	2.8	Be able to suggest improvements to	
	0.6	products in everyday use	
Evaluate their ideas and	2.6	Be able to identify and implement	
products against their own		improvements to their designs and products	
design criteria and consider		products	
the views of others to			
improve their work			
Understand how key events			
and individuals in design			
have helped shape the			
world			
Apply their understanding			
of how to strengthen, stiffen			
and reinforce more			
complex structures			
Understand and use	 		
mechanical systems in their			
products (eg gears, pulleys,			

cams, levers and linkages).	
Understand and use	
electrical systems in their	
products	
Apply their understanding	
of computing to program,	
monitor and control their	
products	
Understand and apply the	
principles of a healthy and	
varied diet	
Prepare and cook a variety	
of predominantly savoury	
dishes using a range of	
cooking techniques	
Understand seasonality,	
and know where and how a	
variety of ingredients are	
grown, reared, caught and	
processed	

Areas of design				
Junk modeling Food technology				
Resistant materials Textiles				
Digital design		Other		

Pupil Progress	Y2	Y3
Pupils working significantly above age related expectations		
Pupils working significantly below age related expectations		

Design and Technology Mile Post 3

Key Skills

National Curriculum		IPC learning Goals	IPC Themes
Use research and develop design criteria to inform the design of innovative,	3.4	Be able to respond to identified needs, wants and opportunities with informed designs and products	ii G Fileines
functional, appealing products that are fit for purpose, aimed at	3.5	Be able to gather and use information to suggest solutions to problems	
particular individuals or groups	3.7	Be able to consider the needs of users when designing and making	
Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	3.6	Be able to devise and use step-by- step plans	
Select from and use a wider range of tools and equipment to perform	3.8	Be able to select the most appropriate available tools and materials for a task	
practical tasks accurately	3.9	Be able to work with a variety of tools and materials with some accuracy	
	3.13	Understand the need for accurate design and working	
Select from and use a wider variety of materials and components, including	3.8	Be able to select the most appropriate available tools and materials for a task	
construction materials, textiles and ingredients,	3.9	Be able to work with a variety of tools and materials with some accuracy	
according to their functional properties and aesthetic qualities characteristics	3.15	Understand that different techniques, tools and materials are needed for different tasks	
Investigate and analyse a range of existing products	3.11	Be able to investigate the way in which simple products in everyday use are designed and made, and how they work	
	3.12	Be able to evaluate the effectiveness of simple products in everyday use	
Evaluate their ideas and products against their own	3.10	Be able to test and evaluate their own work and improve on it	
design criteria and consider the views of others to improve their work	3.16	Understand that the quality of a product depends on how well it is made and how well it meets its intended purpose	
Understand how key events and individuals in design have helped shape the	3.2	Know how the lives of people in the host country are affected by the extent of the technological advance	
world	3.3	Know how the lives of people in their home country are affected by the extent of the technological advance	
Apply their understanding			

of how to strengthen, stiffen		
and reinforce more		
complex structures		
Understand and use		
mechanical systems in their		
products (eg gears, pulleys,		
cams, levers and linkages).		
Understand and use		
electrical systems in their		
products		
Apply their understanding		
of computing to program,		
monitor and control their		
products		
Understand and apply the		
principles of a healthy and		
varied diet		
Prepare and cook a variety		
of predominantly savoury		
dishes using a range of		
cooking techniques		
Understand seasonality,		
and know where and how a		
variety of ingredients are		
grown, reared, caught and		
processed		

Areas of design				
Junk modeling Food technology				
Resistant materials Textiles				
Digital design		Other		

Pupil Progress	Y4	Y5	Y6
Pupils working significantly above age related expectations			
Pupils working significantly below age related expectations			