

PlanIt Subject Overviews

Year group	Subject	Science Year 1 Subject Overview					
		Animals Including Humans	Seasonal Changes (Autumn and Winter)	Everyday Materials	Plants	Seasonal Changes (Spring and Summer)	Scientists and Inventors
<p>Welcome to PlanIt Science! These units have been created to develop children's enthusiasm for and knowledge and understanding of science. With a key emphasis on hands-on learning, children will develop their investigation skills while securing their grasp of key scientific principles. Children will have the opportunity to discover more about famous scientists and their discoveries, deepening their own understanding as they do so. Through these engaging and in-depth units, children will foster a love of science and ensure complete curriculum coverage.</p>							
<p>Children should be taught to:</p>							
				ask simple questions and recognising that they can be answered in different ways			
4				observe closely, using simple equipment	1		
			5	perform simple tests	6		
3			5	identify and classifying			6
4,6				use their observations and ideas to suggest answers to questions	4		2
			5	gather and record data to help in answering questions	6		1
3	2,5			identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	2	2,5	3,4
				identify and describe the basic structure of a variety of common flowering plants, including trees	2,3,4		3
				identify and name a variety of common animals including, fish, amphibians, reptiles, birds and mammals	1,5		
4				identify and name a variety of common animals that are carnivores, herbivores and omnivores			2,5
6				describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)			2,5
5				identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense			2,5
1,2				distinguish between an object and the material from which it is made			
				identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock	2,3		1
				describe the simple physical properties of a variety of everyday materials	1		1
				compare and group together a variety of everyday materials on the basis of their simple physical properties	4		1
				observe changes across the 4 seasons	6		6
		1,3,4,6		observe and describe weather associated with the seasons and how day length varies.		1,3,4	
		1,2,4,5				1,2,4,5,6	4

The Units

Each subject area has been split into a minimum of six different units for coverage of the 2014 National Curriculum throughout the school year.

These units contain an overview, lessons packs, an assessment pack, additional resources and corresponding home learning packs.

Aims

These aims are taken directly from the 2014 National Curriculum.

Introduction

This explains how the units have been written, the skills that the units plan to develop as well as the thinking behind each planning pack.

Numbers

These numbers identify which lessons in the unit build upon the National Curriculum aim.



Welcome to Planit Design and Technology! These units encourage children to learn through a variety of creative and practical activities - through these activities pupils are equipped with the knowledge, understanding and skills to engage successfully and with increasing independence in the process of designing and making. The units include investigative and evaluative activities where children learn from a range of existing products. Pupils are then encouraged to use the knowledge gained when designing and making their own products. Children develop skills to be able to evaluate their products, considering the views of others and their own design criteria. There is a key emphasis on looking at design and technology in a wider context from foods around the world to looking at how kites have helped shape the world we live in. Each unit has been written with an emphasis on cross-curricular links so children see how design and technology is integral to the modern world in which they live.

Our Fabric Faces

Dips and Dippers

Sensational Salads

Fabric Bunting

Pirate Paddy's Packed Lunch Problems

Moving Picture Traditional Tales



Design

design purposeful, functional, appealing products for themselves and other users based on design criteria

5

5

3

5

generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology

5

2

5

Make

select from and use a wider range of tools and equipment to perform practical tasks

3,4

4

5,6

3,4,5

4

select from and use a wider range of materials and components, including construction materials, textile and ingredients, according to their characteristics

6

5

3, 4

Evaluate

explore and evaluate a range of existing products

1,2

1,2

2

1

1,2

1

evaluate their ideas and products against design criteria

6

5,6

6

Technical Knowledge

build structures, exploring how they can be made stronger, stiffer and more stable

4,5,6

explore and use mechanisms

2,3,4,5

Cooking and Nutrition







use the basic principles of a healthy and varied diet to prepare dishes

3,6


identify and name a variety of common animals that are carnivores, herbivores and omnivores

1,4,6

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Juggling Balls	The Great Bread Bake Off	Edible Garden	Let's Go Fly a Kite	Battery Operated Lights	Mechanical Posters
					
Design					
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					
	3,4,5		4	4	3
generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.					
2	4,5		1,4	4	3,4
Make					
select from and use a wider range of tools and equipment to perform practical tasks accurately					
3,6	3,6	4	5		5
select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities					
4,5			3	5,6	5
Evaluate					
investigate and analyse a range of existing products					
1	1		2,3		1
evaluate their ideas and products against their own design criteria and consider the views of others to improve their work					
	6		6	6	6
understand how key events and individuals in design and technology have helped shape the world					
	1		1	1	
Technical Knowledge					
apply their understanding of how to strengthen, stiffen and reinforce more complex structures					
			5		
understand and use mechanical systems in their products					
					2,6
understand and use electrical systems in their products					
				2,3	
Cooking and Nutrition					
understand and apply the principles of a healthy and varied diet					
		2			
prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques					
		2,4,6			
understand seasonality, and know where and how a variety of ingredients are grown reared, caught and processed					
		1,3,5			

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Felt Phone Cases	Super Seasonal Cooking	Global Food	Automata Animals	Marbulous Structures	Programming Adventures
					
Design					
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					
1			1,4		3,4
generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.					
2,3,4,5	5				2
Make					
select from and use a wider range of tools and equipment to perform practical tasks accurately					
			5	2,3	5
select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities					
6	5		3	5	
Evaluate					
investigate and analyse a range of existing products					
				1,4	
evaluate their ideas and products against their own design criteria and consider the views of others to improve their work					
6	6		6	6	
understand how key events and individuals in design and technology have helped shape the world					
Technical Knowledge					
apply their understanding of how to strengthen, stiffen and reinforce more complex structures					
				1	
understand and use mechanical systems in their products					
			2,3,6		
understand and use electrical systems in their products					
apply their understanding of computing to program, monitor and control their products					
					1,6
Cooking and Nutrition					
understand and apply the principles of a healthy and varied diet					
4		2,3			
prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques					
6		3,4,5,6			
understand seasonality, and know where and how a variety of ingredients are grown reared, caught and processed					
1,2,3		1			