

St Laurence's CE Primary School Science Long Term Plan Year: 5



Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets To know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution To use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Describe the movement of the Earth, and other planets, relative to the Sun in the solar system Describe the movement of the Earth and the falling object Describe the movement of the Barth and the falling object Describe the movement of the Barth and the falling object Describe the movement of the Barth and the falling object Describe the movement of the Earth and the falling object Investigating growth Describe the life process of reproduction in some plants and animals. Posscribe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Investigating growth Understand of during puber resistance and friction, that act between moving surfaces Research ges	Autumn Materials and their properties	Summer 2 Animals including humans					
the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets To know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution To use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic To men a solution Describe the movement of the Sun, Earth and Moon as approximately spherical bodies Recognise that some mechanisms, including allow a smaller force to have a greater effect. To move the Earth and the falling object of the Earth and the	Key Content and skills: Knowledge						
Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	e basis of their properties, including their rdness, solubility, transparency, conductivity ectrical and thermal), and response to magnets know that some materials will dissolve in liquid to rm a solution, and describe how to recover a bstance from a solution I use knowledge of solids, liquids and gases to ecide how mixtures might be separated, including rough filtering, sieving and evaporating I we reasons, based on evidence from comparative d fair tests, for the particular uses of everyday exterials, including metals, wood and plastic emonstrate that dissolving, mixing and changes of exterials are reversible changes I plain that some changes result in the formation of exterials, and that this kind of change is not ually reversible, including changes associated with irrning and the action of acid on bicarbonate of	humans develop to old age. Investigating human growth Understand changes during puberty (Link to RSE) Research gestation periods of different					

Key Content and skills: Working Scientifically

Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Use test results to make predictions to set up further comparative and fair tests



Vocabulane

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Vocabularu

Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

Vocabularu

Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs,

Report and present findings from enquiries, including conclusions, causal relationships and explanations results, explanations of and degree of trust in results, in oral and written forms such as displays and other presentations

Vocabularu

Identify scientific evidence that has been used to support or refute ideas or arguments.

<u>Vocabulary</u> :	<u>Vocabulary:</u>	<u>Vocabulary:</u>	<u>Vocabulary</u> :	<u>Vocabulary</u> :
Materials	Earth and space	Forces and energy	The natural world	Anatomy of the human
Properties	sphere	force	life cycle	body
conductor	orbit	gravity	dispersal	life cycle
insulator	gravity	newtons	germination	adolescent
sieve	heliocentric	resistance	pollination	puberty
filter	geocentric	balanced	fertilisation	menstruation
evaporate	rotation	acceleration	reproduction	reproduction
condense	axis	deceleration	propagation	gestation
dissolve	phases	friction	metamorphosis	foetus
reversible				life expectancy
Assessment Against the National Curriculum	Assessment Against the	Assessment Against the	Assessment Against the	Assessment Against the
Pupils should be taught to:	National Curriculum	National Curriculum	National Curriculum	National Curriculum
use knowledge of solids, liquids and gases to decide	Pupils should be taught	Pupils should be taught	Pupils should be taught	Pupils should be taught
how mixtures might be separated, including through	to:	to:	to: describe the	to:
filtering, sieving and evaporating	describe the movement	identify the effects of air	differences in the life	describe the changes as
	of the Earth, and other	resistance, water	cycles of a mammal, an	humans develop to old
	planets, relative to the	resistance and friction,	amphibian, an insect and	age.
Plan different types of scientific enquiries to answer	Sun in the solar system.	that act between moving	a bird	
questions, including recognising and controlling		surfaces		Report and present
variables where necessary	describe the movement		describe the life process	findings from enquiries,
	of the Moon relative to	Use test results to make	of reproduction in some	including conclusions
	the Earth.	predictions to set up	plants and animals.	
		further comparative and		
	Report and present	fair tests	Record data and results	
	findings from enquiries	Take	of increasing complexity	
		measurementstaking	using scientific diagrams	
		repeat readings when	and labelsand line	
		appropriate	graphs	



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