



Progression in Scientific knowledge,	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	KS3
concepts & skills									
	Use all	Explore the	Identify	Know the		Compare and	Compare and		The
Materials	their	natural world	and name a	uses of		group solids,	group		particulate
	senses in	around them,	range of	different		liquids and	everyday		nature of
	hands-on	making	materials	everyday		gases	materials		matter
Working	exploration	observations	(wood,	materials			based on their		
Scientifically	of natural	and drawing	plastic,	(wood,		Know that	properties		Atoms,
	materials.	pictures of	glass,	metal,		some	including their		elements
		animals and	metal,	plastic,		materials	hardness,		and
	Explore	plants.	water and	glass, rock,		change state	solubility,		compounds
	collections		rock)	brick,		(heating and	transparency,		
	of	Know some		paper,		cooling; no	conductivity		Pure and
	materials	similarities	Describe	cardboard)		baking)	(electrical and		impure
	with similar	and	physical				thermal) and		substances
	and/or	differences	properties	Classify and		Identify the	response to		
	different	between the	of everyday	group		part played by	magnets		Energetics
	properties.	natural world	materials	materials		evaporation	Kanada		T 1
	Talle also and	around them	Classification	based on		and	Know and		The
	Talk about the	and	Classify and	their uses		condensation in the water	investigate		Periodic Table
	the differences	contrasting	group	Know that			through		Iddle
	between	environments	according	solid		cycle	dissolving and		Chemical
	materials	Understand	to a range of physical	objects can			mixing reversible and		reactions
	and			be changed			irreversible		reactions
		some	properties	5					
	changes	important		by			changes		





they notice.	processes	squashing,	
	and changes	bending,	Know that
	in the	twisting and	some changes
	natural world	stretching	result in the
	around them,		formation of
	including the		new materials
	seasons and		
	changing		
	states of		
	matter		Use prior
			knowledge of
			solids, liquids
			and gases to
			know how
			mixtures
			might be
			separated
			(filtering,
			-
			sieving and
			evaporating)
			Use
			comparative
			and fair tests
			to give
			reasons for
			uses of
			everyday
			materials



