YEAR A	Badger Wood	Keeper Wood	Farthing Wood
Autumn Year A			
	Biology – Animals, including	Physics – Forces and Magnets	Physics – Earth and Space
	<u>Humans</u>	Which shoe/ surface is the most	Is there a pattern between the size o
	Using classification trees to classify	slippery? (comparative test)	<mark>a planet and the time it takes to</mark>
	animals using soft toys as	If I change the car, what happens to	travel around the sun? (pattern
	representations (classifying and	the distance travelled? (comparative	spotting) Researching evidence of
	<mark>grouping).</mark>	test)	life in space or Apollo missions
	Asking questions about animals and		(researching using secondary
	using books and the internet to		sources)
	research them (research using		
	secondary sources)		Physics – Forces: gravity, resistance
	Who has the largest hand-span?		<u>mechanisms</u>
	(Pattern seeking between hand-span		Creating parachutes and
	and height or feet size)		investigating "How does the surface
	Which habitat do worms prefer?		area of a parachute affect the time i
	Where can we find the most worms?		takes to fall?" (fair test)
	(pattern spotting)		Do all objects fall through water in
	Which offspring belongs to which		the same way? (pattern seeking)
	animal? (identifying, grouping and		How does the surface area of a
	classifying)		container affect the time it takes to
			sink? (fair test)
	Physics – Seasonal changes		
	(continual)		
	Children to keep records of the		
	weather and discuss patterns		

(pattern seeking)

Is it always windy when it is raining? Does the wind always blow the same way? Is it always sunny when it is warm?

Scientific enquiry - Ideas

Identifying, classifying and grouping

Pattern seeking

Observation over time

	Badger Wood	Keeper Wood	Farthing Wood
Summer Year A			
	Physics – Seasonal changes	<u>Biology – Plants</u>	Biology - Animals, including human
	(continual) see Autumn	How is water transported in plants?	Investigating and measuring pulse
		Putting cut up flowers/ lettuce into	rate during exercise (pattern
	Biology - Living things and habitats	coloured water and observing	seeking) Conducting research about
	(woodland/seaside)	transportation of water	diet and drugs (researching using
	Children to explore how the	(observation)	secondary sources)
	conditions of a habitat affect the	Do bigger plants grow from bigger	Investigating a Pig's heart
	number of woodlice (Pattern	seeds? (pattern seeking)	(researching using secondary
	<mark>Seeking)</mark>	What colour flowers do pollinating	<mark>sources)</mark>
	Where do we find the most	insects prefer? (pattern seeking)	Researching the gestation periods of
	woodlice?		other animals (researching using
		What conditions do plants need to	secondary sources)
	<u>Biology – Plants</u>	grow? (comparative test of plants	Recording the length and mass of a
	Grouping different types of plants	growing in different locations- dry,	baby as it grows (researching using
	(classifying and grouping)	wet, light, dark)	secondary sources)
	Observing plants over the year and	Observing plants over time and	Is there a link between a mammal's
	keeping record of how they have	keeping record of how they have	size and the length of its gestation
	changed (observation over time)	changed (observation over time)	period? (pattern seeking)
	Do trees with bigger leaves lose their		
	leaves first in autumn? (pattern		
	seeking)		

YEAR B	Badger Wood	Keeper Wood	Farthing Wood
Autumn Year B			
	Biology – Animals, including	Physics – Electricity	Chemistry - Materials, filtering,
	<u>Humans</u>	Testing whether different materials	<u>changes</u>
	See Year A	conduct electricity (pattern spotting)	Which nappy is the most absorbent?
		What happens when we add more	(fair test)
	Physics – Seasonal changes	bulbs to a circuit? (pattern spotting)	Which materials would be the most
	(continual)		effective for making a warm jacket,
	See Year A	<u>Physics – Light</u>	for wrapping ice cream to stop it
		Which pair of sunglasses is most	melting, or for making blackout
		effective? (comparative test)	curtains? (comparative test)
		What happens to shadows when the	Grouping objects into transparent,
		light source moves? (pattern	translucent and opaque materials
		<mark>seeking)</mark>	(identifying, grouping and
			classifying)

	Badger Wood	Keeper Wood	Farthing Wood
Spring Year B			
	Physics – Seasonal changes	Biology – Animals, including	Biology - Evolution and Inheritance
	(continual)	<u>Humans</u>	Bird beak buffet - Are there any
	See Year A	Identifying and grouping animals	patterns between birds' beaks and
		with and without skeletons	the foods they eat? (pattern
	<u> Chemistry – Everyday Materials</u>	(grouping and classifying)	spotting)
	See Year A	What nutrients does our body need?	Compare the skeletons of apes,
		(researching using secondary	humans, and Neanderthals – how
		sources)	are they similar, and how are they
		Does doing lots of sports make you	different (identifying, grouping and
		fitter? (pattern seeking)	classifying)
		Do male humans have larger skulls	Can you classify these observations
		than female humans? (pattern	into evidence for the idea of
		seeking)	evolution, and evidence against?
		Which liquid decays our teeth the	(identifying, grouping and
		most? Eggs in liquid investigation	classifying)
		(comparative test)	
		Grouping and classifying the teeth of	
		carnivores and herbivores (grouping	
		and classifying)	
		Are foods that are high in energy	
		always high in sugar? <mark>(pattern</mark>	
		<mark>seeking)</mark>	

	Badger Wood	Keeper Wood	Farthing Wood
Summer Year B			
	Physics – Seasonal changes	Biology: Living Things and Habitats	Biology: Living things and habitats
	(continual)	Using and making simple guides or	Using keys and computer
	See Year A	keys to explore and identify local	programmes to classify a range of
		plants and animals (researching	living things (grouping and
	Biology - Living things and habitats	using secondary sources)	classifying)
	(woodland/seaside)	Grouping plants and animals in	Research unfamiliar animals and
	See Year A	environment (identifying and	plants and decide where they belor
		classifying)	on a classification key (work of Carl
	<u>Biology – Plants</u>	Researching the effects of	Linnaeus) (researching using
	See Year A	deforestation (researching using	secondary sources)
		secondary sources)	Do all flowers have the same numb
		How do conditions of their habitat	of petals? (pattern spotting)
		affect food supply/chain (Pattern	Growing plants from cuttings, tube
		<mark>Seeking)</mark>	and bulbs (observation over time)
			Producing a biography about a
			naturalist (researching using
		Chemistry: Rocks	secondary sources)
		Classifying rocks according to	Compare this collection of animals
		whether they have grains or crystals	based on similarities and difference
		(grouping and classifying)	in their lifecycle (identifying,
		How are fossils formed?	grouping and classifying)
		(researching using secondary	
		sources)	<u>Physics – Light</u>
			Investigating the effect of different
			light sources and objects and the
			shadows produced (comparative
			<mark>tests)</mark>
			How do shadows change during the
			day? (observation over time)
			How does the angle that a light ray
			hits a plane mirror affect the angle

	at which it reflects off the surface?
	(fair test)