Science Progression of Skills and Knowledge Animals including humans

Key to understanding this document: Black = National Curriculum objectives Red = Knowledge/Skills to be taught Green = Resources to be used

Area of	<u>EYFS</u>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<u>Learning</u>							
<u>Animals</u>		Working	Working	Working	Working	Working	Working
<u>including</u>		scientifically: To	scientifically: To	scientifically:	scientifically:	scientifically:	scientifically:
<u>humans</u>		identify and classify	observe closely,	Report on findings	Setting up simple	Reporting and	Using models to
		a variety of	using simple	from enquiries	practical enquires.	presenting findings	describe scientific
		common animals	equipment and use	including oral and	Making systematic	from enquiries,	ideas.
		using pictures or	observations to	written	and careful	including	AH1 Identify and
		videos.	answer simple	explanations.	observations.	conclusions.	name the main
		AH1 identify and	questions.	AH1 Identify that	To use written	AH1 describe the	parts of the human
		name a variety of	AH1 notice that	animals including	explanations to	changes as humans	circulatory system,
	4	common animals	animals including	humans need the	present findings.	develop to old age.	and describe the
		including fish,	humans have	right types amount	AH1 describe the	Children describe	functions of the
		amphibians,	offspring which	of nutrition.	simple functions of	the physical	heart, blood vessels
		reptiles, birds and	grow into adults.	Children create	the basic parts of	changes for each	and blood.
		mammals.	Life cycle of a	balanced menu in	the digestive	stage of life. E.g.	Make blood,
		Recognise and	caterpillar –	groups. Children	system in humans.	puberty for a	investigate the
		identify and name	plasticise life cycle	could then have a	Make the digestive	teenager.	heart.
		Frog, goldfish,	or caterpillar farm.	competition to see	system.	W	
		snake, lizard, robin,	Stages of human	which group	130 F	This topic will	
		blackbird, crow,	life – baby, toddler,	created the best		taught in line with	
		magpie, cats, dogs,	child, teenager,	balanced meal,		the Sex education	
		humans etc.	adult, elderly.	containing the	100	policy.	
		0.00		different food	~ ~ ~		
		Working	_	groups.	Working		
		Scientifically:	Working	Compare and	scientifically:		
		To identify and	scientifically: To use	contrast the	Identifying		Working
		classify.	observations to	different amounts	differences,		scientifically:
		To record data in a	answer simple	of food different	similarities or		Identifying scientific
		simple scaffolded	questions.	animals eat.	changes related to		evidence that has

	table and use this	AH2 find out about		simple scientific		been used to
	to answer simple	and describe the	Working	ideas and		support or refute
	questions.	basic needs of	scientifically:	processes.		ideas or arguments.
	AH2 Identify and	animals including	Identifying	Record findings		AIH2 recognise the
	name a variety of	humans for survival	differences,	using simple		impact of diet,
	common animals	(water, food and	similarities or	labelled diagrams.		exercise, drugs and
	that are carnivores,	air)	changes related to	AH2 Identify the		lifestyle on the way
	herbivores, and	Identify the things	simple scientific	different types of		their bodies
	omnivores.	we need to survive.	ideas.	teeth in humans		function.
	Children can			and their simple		Affect smoking has
	identify whether an	Working	AH2 Animals	functions.		on the human body.
	animal is a	scientifically:	cannot make their	Labelling teeth in		Show pictures of
	carnivore,	To identify and	own food and that	humans and	Aug.	lungs and compare.
	herbivore or	classify based on	they get the	animals and)	Discuss caffeine and
	omnivore and sort	their own	nutrition from what	describe the	ARTON CO.	the impact it has on
11.0	animals into simple	observations.	they eat.	functions. Eat an		the body.
	groups. (e.g. hoops)		Humans have a	apple and describe	0 0 1	
	Children create a	To perform a	wide variety of	what teeth they are		
-	simple table	simple test to	foods with the	using.	San Control	
11/	showing their	answer a simple	different food			
: 0.	results.	question.	groups. Compare to			
	1.00	AH3 describe the	animals and how		Miser	
1.2	100	importance for	they are more	2.04	F 70	
199	Working	humans of	restricted on the		Lil	
	scientifically: Use	exercising, eating	food they eat.			
	observations and	the right amounts		Working	2	
	ideas to suggest	of different food	NOT FOOD	scientifically:		
	answers to	and hygiene.	CHAINS!	Record findings		Working
	questions.	Introduce the eat		using simple	21	scientifically:
	AH3 describe and	well plate – fruit	Working	labelled diagrams.		Planning different
	compare the	and vegetables,	scientifically:	- C		types of scientific
	structure of a	carbohydrates, oils	Using	AH3 Construct and		enquiries to answer
	variety of common	and fats, dairy and	straightforward	interpret a variety		questions, including
	animals (fish,	protein. Prior to	scientific evidence	of food chains		recognising and
	amphibians,	this children are	to answer	identifying		controlling variables
	reptiles, birds and	given a selection of	questions.			where necessary.

	mammals, including pets) Label simple animal diagrams. E.g. fish with scales and gills. Birds with wings and feathers. Working scientifically: Gathering and recording data in a simple scaffolded table. AH4 identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. Draw round the human body and label each part with the correct sense. Senses carousel.	foods which they must sort into their own categories before learning about the food groups. Investigations to do with age impacting exercise abilities/ stamina.	AH3 identify that humans and some animals have skeletons and muscles for support, protection and movement. Children to identify and group animals with and without skeletons and muscles. Children look at different x-ray pictures and compare.	producers, predators and prey. Create own food chains.		AlH3 describe the ways in which nutrients and water are transported within animals including humans. Provide children with the resources so that they can find out about the roles that water play in keeping us alive; especially in transporting blood and nutrients around the body. http://www.cyh.com/HealthTopics/HealthTopicDetailsKids.aspx?p=335&np=284&id=1494 http://www.nhs.uk/Livewell/Goodfood/Pages/waterdrinks.aspx
Key Vocabulary	Fish, reptile, mammal, amphibian, birds, carnivore, herbivore,	Egg, chick, chicken, caterpillar, pupa, butterfly, tadpole, frog, lamb, sheep, baby, toddler, child,	Nutrition, skeleton, balanced, muscles, support, protection, movement.	Predator, producer, consumer, prey, digestive system, mouth, tongue, teeth, stomach,	Growth, Puberty, gestation period	Diet, exercise, drugs, muscular, digestive system, smoking, caffeine, lungs

	omnivore, gill, scales, wings, feathers, senses, smell, taste, touch, hear, see, human body, neck, head, elbows, arms, legs, knees, face, ears, toes.	teenager, adult, elderly, exercise, offspring, hygiene, survival and shelter.		small intestine, large intestine, rectum anus, carnivores, herbivores, decay, canines, molars.		
Resources	Mobile farm/ animal people in. Pictures of different types of animals. Senses carousel objects – feely boxes, items to put inside.	Caterpillar farm Photos of stages of life	X-ray pictures of animals. Pictures of animals and what they eat. Discovery walk	Tights, orange juice, cornflakes, banana plastic cups, bucket.	X-ray of teeth.	Balloons Skewer Straws Pulse meters Red coloured sweets Corn syrup White marshmallows

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