<ul><li>nutrition, and what they ea</li><li>identify that h</li></ul>	<ul> <li>identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat</li> <li>describe the ways in which nutrients and water are transported within animals, including human</li> </ul>				ents and water are
need a balanced diet o	cluding humans, ca of nutrients and the	upils will annot survive without eating because food provides erefore of foods containing those nutrients, animals ognise that different types of animals may have diffe	have skeletons and muscles and u	understand	
Understand the vocat Disciplinary knowledge questioning, testing us their book. Substantive: Knowledge The expectation is that Trip and Visit:	bulary listed below e: classifying and id sing given variables ge and vocabulary o	information, hypothesise and test hypotheses – able to explain and discuss it without reading it fr entifying, observation, observation over time, testi , children are taught to draw with ruler, pencil and of the human anatomy rn, explain and write coherently about the aspects	ng and recording data, measuring their own table in	-muscle (skeleto -muscle tendons togethe	es create our shape on needed) es connected to skeleton by s. Bones connected r by ligaments. muscles DO old bones together
local trip- Reading of books at ho	ome and in school o	on plants, teaching of how to use the glossary and c	ontents.		
Pupils will learn	Vocabulary pupils will learn	Writing using a genre/tables	link to Y6 learni	ing: Fundamental principles and teaching techniques to ensur- that work is of a high standar from all pupils	
week 1 -invertabrates -vertebrates	classification mammals birds reptiles	Re-teach Y1 learning on animal groups- use odd o group and compare pictures of animals	one out to pictures of diffe animal/insect g	erent	

## Animals including humans : YEAR 3 SCIENCE MEDIUM TERM PLAN (5 weeks work)

	1		
	fish	Teach invertebrates and vertebrates and the difference	IN pairs identify and
	amphibians	between. Use the odd one out resource and model how to	classify using modelled
		compare using characteristics taught.	speak
			-add to table in book.
week 2	invertebrates	https://teachers.thenational.academy/lessons/what-are-the-	
comparing human and	vertebral	major-bones-in-the-human-body-69gpac	
animal anatomy	column		
-comparing skeletons	backbone	look at the slides starting at endoskeleton vs exoskeleton.	
-include exoskeleton	internal	Explain hydrostatic (worm- no bones)	
-invertabrates	organs	https://teachers.thenational.academy/lessons/how-does-	
-vertebrates	external	human-anatomy-compare-to-other-animals-6rvk4e	
	exoskeleton	go through presentation- discuss differences between animals	
	endoskeleton	and humans	
	hydrostatic		
		Discuss different animals, look at pictures using resources and	
		think of positives and negatives of each skeleton in pairs.	
		Children to: sort creatures into table of endoskeleton,	
		exoskeleton, hydrostatic skeleton	
		write a brief sentence explaining each (HA- with one advantage	
		and disadvantage of that type of skeleton)	
skeleton- function and	femur	https://teachers.thenational.academy/lessons/what-are-the-	
identifying names of	rib cage	major-bones-in-the-human-body-69gpac	
key bones	skull	use slides and diagram as example of how to draw their own.	
		Stop when it gets to joints.	
		Learning the function of the skeleton- purpose, include joints.	
		Children draw their own simple diagram of skeleton and	
		labelling major bones of the human body	
		Priof paragraph using wordpat (tageher to make) surlaining	
		Brief paragraph using wordmat (teacher to make) explaining	
		mportance of the skeleton after labelled diagram of skeleton	
		(see Oak national)	

## Animals including humans : YEAR 3 SCIENCE MEDIUM TERM PLAN (5 weeks work)

		mais including numans : YEAR 3 SCIENCE MEDIUM TERM P	LAN (5 WEEKS WOR)	
week 4:	joints	https://teachers.thenational.academy/lessons/what-are-the-		
joints and ligaments	gliding	major-bones-in-the-human-body-69gpac		
	ball and socket			
	hinge	go through slides on joints- think of reasons for their names.		
	ligaments			
		Where in our body can we find those joints- together as a class.		
		move to show range of movement. Can knee move like		
		elbow?why?		
		Explanation of types of joints beside given picture. (snipping		
		tool-take from Oak slides)		
		table of joints and places in the body		
week 6	muscles	https://www.bbc.co.uk/bitesize/topics/z7x78xs/articles/zpbxb82		
Muscles	tendons	-very short clip. Can we explain what the purpose of the muscles		
-contraction and	ligaments	are? What are needed to ensure muscles are in place.		
-importance of	tendons			
stretching	contract	Discuss voluntary and involuntary muscles- show pictures of		
-	relaxe	heart, diaphragm, tongue- which are voluntary? why?		
	bicep			
	tricep	Discuss movements of muscles- contraction (buncing up) and		
	quadriceps	relax. Muscles work sometimes work in pairs- when one		
	glutes	contracts, the other relaxes (triceps,		
	hamstrings			
	voluntary	Chn to complete the simple movements on their own around the		
	involuntary	classroom- decide if contracting or relaxing and which muscle is		
	involuntary	doing it. Write explanation –function of muscles inc coluntary		
		and involuntary		
		Complete table in backs of simple meyoments /listed by		
		Complete table in books of simple movements (listed by		
		teacher) (open the door, pick up pencil) and which muscle is		
		contracting.		
		https://kidshealth.org/en/kids/muscles.html		

Animals including humans : YEAR 3 SCIENCE MEDIUM TERM PLAN (5 weeks work)
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investigation using	7.011	Do people with longer legs jump further?		
<b>v v</b>		Do people with longer legs jump further?		
knowledge of skeleton				
and muscles				
: 2 hours	carnivores	Recap Y2 learning-carnivores, herbivores, omnivores	-classifying plants based	
comparing animal and	herbivores	https://teachers.thenational.academy/lessons/how-do-we-	on characteristics	
human diets	omnivore	classify-the-diets-of-animals-6rup2c		
	producer			
	vegan			
	vegetarian	read about the diets of different animals and compare them to		
		humans including our pets (dog, rabbit etc)		
		Compare different human diets- vegetarians, vegan, gluten free,		
		paleo etc. Why might people choose these diets?		
		Complete and stick in Venn diagram.Group different animals and		
		humans by their diets- children to talk in pairs. Think about what		
		different people might eat- humans could be groups into		
		omnivores and herbivores (vegetarian humans).		
week 1 – 2 hours	carnivores		-sorting and classifying	Clear expectations for
what is nutrition	herbivores	Discuss different food groups and function. Discuss in pair when	plants and animals	listening – repeating
	omnivore	we need most carbohydrates, diary etc- think about when we		and learning the
	producer	drink milk daily in KS1- why?		information. Clear bite-
	nutrition			size instruction and
	carbohydrate	Explain each food group and its function in book		explanation from the
	protein			teacher using parts of
	nutrition			video's where
	dairy			appropriate.
	vegetables			Behave from all pupils
	fruits			is exemplary and
	vitamins			comments are made
	minerals			on sitting and listening.
				Bite sized chunks of
week 2: 1.5 hours	carnivores	Recap Y2 learning-carnivores, herbivores, omnivores	-classifying plants based	
comparing animal and	herbivores	https://teachers.thenational.academy/lessons/how-do-we-	on characteristics	
human diets	omnivore	classify-the-diets-of-animals-6rup2c		discussion and
	producer			rehearsing in pairs.
comparing animal and	vitamins minerals carnivores herbivores omnivore	https://teachers.thenational.academy/lessons/how-do-we-		<ul> <li>comments are made on sitting and listening</li> <li>Bite sized chunks of knowledge making time for repetition discussion and</li> </ul>

			1
vegan vegetarian	read about the diets of different animals and compare them to humans including our pets (dog, rabbit etc) Compare different human diets- vegetarians, vegan, gluten free, paleo etc. Why might people choose these diets?	•	<ul> <li>Emphasis on learning and exploring key vocabulary. Repetition in oral WORK AND INSISTENCE THAT THE CORRECT TERMS ARE</li> </ul>
	Complete and stick in Venn diagram.Group different animals and humans by their diets- children to talk in pairs. Think about what different people might eat- humans could be groups into omnivores and herbivores (vegetarian humans).		USED IN WRITING. Drafting process for tables and writing Writing of date and modelling of key letters e.g. in January.
			<ul> <li>Demonstration and insistence on high standards of construction and presentation</li> <li>Finger under words to copy words – insist accurate.</li> </ul>
			<ul> <li>The vocabulary is broken down into the weekly learning, it is revised and used in writing</li> <li>Pupils write their own vocabulary into their books putting their finger under the words</li> </ul>
		and	to copy correctly. products – handwriting colouring is beautifully ented.