Jeavons Wood Primary School – Science Knowledge Organiser

Topic: Animals including Humans

Year: 3

Strand: Biology

Big Question: How do I keep my body healthy?

What should I already know?

• All animals need water, air and food to survive. • The different ways in which humans can be healthy.

• Examples of healthy and unhealthy food choices

What will I know by the end of the unit? • Humans cannot make their own food like plants do - we need to plants and animals to get our energy. • Healthy, balanced diets lead to healthy, active people. What are the different • Fruit and vegetables food types? • Bread, rice, potatoes, pasta and othe starchy foods. Milk and dairy • Oils and spreads • Meat, fish, eggs, beans and other not dairy sources of protein. What are the different Protein types of nutrients? • help your body to grow and repair its • examples include red meat, yogurt, beans Carbohydrates give you energy • examples include bread, potatoes, p Fats give you energy • examples include nuts, oils, avocados Vitamins • keep your body healthy • examples of foods high in vitamins include oranges, carrots and nuts Minerals • keep your body healthy • examples of foods high in vitamins include milk, sweetcorn, spinach Fibre • helps you to digest the food that you have eaten • examples of foods high in fibre include wholegrain bread, cereals and lentils Water helps to move nutrients in your body get rid of waste that you don't need • examples of foods high in water inclu celery, cucumber, tomatoes

		Vecebulery							
		Vocabulary							
	balanced diet	a variety of food that you regularly eat							
	diet	the type and range of food that you regularly eat							
	disease	an illness which affects people, animals, or plants							
	energy	the ability and strength to do physical things							
o eat	healthy	well and not suffering from any illness							
	hygiene keeping yourself and your surroundings clean, especially in order to prevent illness or the spread of diseases								
er	nutrients	substances that help plants and animals to grow							
	nutrition	the process of taking food into the body and absorbing the nutrients in those foods							
on-	starchy	foods that contain a lot of starch (a nutrient which gives you energy)							
	Investigate!								
	Compare and	contrast the diets of different animals (including							
tself	their pets) and decide ways of grouping them according to what they eat.								
	• Research how different foods contribute to a varied diet.								
	•Design meals based on your research.								
	 Learn about h 	 Learn about how to prepare food hygienically. 							
pasta	Prepare a presentation about the benefits of healthy eating.								
	•Write a persuasive advert for healthy foods.								
os	 Know that some people keep different diets for medical, religious and ethical reasons. 								
	•Describe what happens if one part is missing from a balanced diet and how some groups of people (e.g. vegetarians) may								
	compensate for that. •Identify and group animals with and without skeletons and compare the ways in which they move.								
	•Match animals to their skeletons and explain your reasons for this.								
	 Explore ideas about what would happen if humans did not have skeletons. 								
u		bones are used for support (e.g. backbone),							
	which are used for protection (e.g. cranium) and which are used								
ıde	for movement (e.g. joints)								
	•Create a presentation to show how muscles contract and relax.								
y and	•Compare the size of straight arms and bent arms. Measure								
y anu	around the top of an arm when it is straight and when it is bent .								
lude	What do you notice?								
Diagram									







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Humans												
Big Question: How do I keep my body healthy?												
			_									
Question 2: Which part of the	Start			1	uestion 3: Which pa			Start	of	End of		
skeleton protects the brain? unit		: unit	:	1		n protects the hea	art and	unit	:	unit:		
skeleton				lung					+			
head				ches					\rightarrow			
cranium				ribs cranium					\rightarrow			
ribs						1			+			
				spin	e							
Question 4: What does the		6 5 1										
prefix exo - tell us about	Start unit		End of unit:		Question 5: What connects a			Start		End of		
exoskeletons?			muscle to			to a bone?			t:	unit:		
				skeleton								
				tendon								
				joint								
				blood								
[]												
Question 6: What is the			of	Question 7: All animals that				Start of		End of		
purpose of a skeleton?	unit	: unit	:	have a backbone are called			led	unit:		unit:		
protect our organs				vertebrates								
scare us					invertebrates				\rightarrow			
keep us upright												
allows us to move												
Quantizer 1. What is the best for		Chard of		1 - 6	T	Question 2: Give	one oth	or				
Question 1: What is the best for people to help have healthy diets?		Start of unit:	End of unit:			way of keeping h		Start		End of		
		unit.	un	unit.		other than eating a		of unit:		unit:		
not eat sugary foods					┟	balanced diet.						
eat a variety of foods												
not eat foods that contain fat or oil												
eat only fruit												
Question 3: Write T or F next to ea	ach of	Charles of	-	1.1								
these statements to indicate if they are		Start of unit:		nd of Init:								
true or false.		unit.	unit. ui		I	Question 4: Give	n 4: Give an		Start	Fred of		
having a balanced diet will help my bones get stronger						example of a food high i			of	End of unit:		
having a balanced diet will help give me			╂──			water.		, I	unit:	unit.		
the nutrients I need												
having a balanced diet means I do												

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need to exercise

balanced diet.

I must not eat any sweets if to have a