L Asghar

Subject -Science Spring 1 Year 4 Animals including Humans

TAPS Assessment: Teeth in liquid

Key vocabulary: Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, nutrients, large intestine, rectum, anus, teeth, incisor, canine, molar, premolars,									
			Disciplinary	Factual					
National Curriculum	Week	NC - Coverage	Knowledge	Knowledge	Activity Outline				
The national curriculum for Science aims to ensure that		Describe the simple	Label the different	I know how parts of	Ask children to think about what they already				
all pupils:		functions of the	parts of the digestive	the model can	know about the human body/ parts of the body				
		basic parts of the	system including the	represent the organs	related to the digestive system. Collate their ideas				
Working Scientifically Lower KS2		digestive system in	mouth, stomach,	in the digestive	using KWL grids. Children to participate in their				
pupils should be taught to use the following practical scientific methods, processes and skills through the teaching	1	humans	small intestine, large intestine, rectum	system including the mouth, teeth,	BBI & meet the scientist. Children to make models of the stages of the digestive system in groups using				
of the programme of study content:			and anus.	stomach, small	household items, following instructions from the				
s asking relevant questions and using different				intestine, large	teacher. At each stage ensure the correct				
types of scientific enquiries to answer them § setting up simple practical enquiries, comparative				intestine, rectum and anus.	-				
and fair tests § making systematic and careful		Describe the simple	I can use	I know the functions	Ask children to complete a storyboard retelling 'the				
observations and, where appropriate, taking		functions of the	diagrams to	of the different	journey of an item of food'. It should identify the				
accurate measurements using standard units,		basic parts of the	describe the	organs in the	functions of the different organs in the digestive				
using a range of equipment, including		digestive system in	journey of food	digestive system e.g.,	system. Ensure children are using the key				
thermometers and data loggers	2	humans	through the body.	in the mouth the					
§ gathering, recording, classifying and presenting				saliva moistens food	vocabulary independently.				
data in a variety of ways to help in answering				and starts to break					
questions				down starches.					
§ recording findings using simple scientific		Islam Cfristland	Malasasas		Fundation the scale of sliffs many times and to a th				
language, drawings, labelled diagrams, keys, bar		Identify the	Make careful	I can name the	Explain the role of different types of teeth.				
charts, and tables		different types of	observations of the	different teeth	Children to then explore eating different types of				
§ reporting on findings from enquiries, including		teeth in humans and	similarities and	(incisors, canines	food to identify which teeth are being used for				
oral and written explanations, displays or		their simple functions.	differences between types of teeth.	and molars) where they are in the	cutting, tearing and grinding (chewing). Working				
presentations of results and conclusions § using	3		types of teeth.	mouth and explain	in pairs children to make videos naming teeth,				
results to draw simple conclusions, make				their function. e.g.,	position and their function. Assess children's oral				
predictions for new values, suggest improvements				the molars are at	· ·				
and raise further questions				the back of the					
1				mouth and are used					

 § identifying differences, similarities or changes related to simple scientific ideas and processes § using straightforward scientific evidence to answer questions or to support their findings Subject Content Pupils should be taught to: describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their simple functions Note: Construct and interpret a variety of food chains, identifying producers, predators and prey to be taught in their teaching of the Living things and their habitats. Common Misconceptions Some children may think: • there is always plenty of food for wild animals • your stomach is where your belly button is • food is digested only in the stomach • when you have a meal, your food goes down one tube and your drink down another • the food you eat 	4	Identify the different types of teeth in humans and their simple functions Identify the different types of teeth in humans and their simple functions	To use knowledge about tooth decay to ask relevant questions and make a prediction. TAPs Assessment To use results to draw simple conclusions, suggest improvements and raise further questions e.g. Is orange juice a 'healthy' drink? I wonder whether it contain a lot of sugar.	to grind food as we eat. To know that teeth are made from enamel and they needed to be protected from tooth decay. To be able to order liquids according to damage done to eggs and suggest reasons why.	This is an enrichment activity to be carried out by the children once they have demonstrated they are secure with the types and function of the teeth. It provides opportunities for working scientifically. The children are to receive a 'letter from a toothpaste company' asking them to investigate tooth decay and different toothpastes to give advice about the design of a new toothpaste. Leave for one week, although children can check on the experiment daily to see if they can notice any changes. After one week, unveil the eggs by tipping into a white bowl and photograph. Children to record their observations (look, feel, smell, etc.) and rate the eggs in order of damage to shell observed. Children to consider how they could improve the test and what further questions arise that they could investigate.
becomes "poo" and the drink becomes "wee"	6		To set up comparative tests using a stopwatch to measure time. To create their own record table to the results of their tests .	To know how to set up tests to independently e.g., deciding on observations and on categories for their table of results.	This is an additional enrichment activity Ask children to work in groups to set up a number of tests to compare toothpastes. They can discuss the colour and smell, testing how long it takes to clean permanent pen off an enamel tile, and how long it takes to shake the toothpaste off the toothbrush. Children to compare their results with other groups.