

Science Year 3 and 4 A 2025-26									
Yr4/ 3 A	1.1	WDIKA States of matter	Sort materials into solid, liquid and gases using their properties  Compare and contrast solid , liquid and gas	Observe how materials change their state  Explain why heat and cold change the state of a material	Research at what temperature does water freezes and boils. Can the boiling point and freezing point be changed?	Decide what to change, what to measure and observe Present data in bar charts when Investigating factors that affect rate of evaporation	Assessment	Differences between three states of matter Explain heating and cooling can change state of matter Where do cubes go when they disappear? Can I make ice cubes disappear faster or slower? How?	<b>energy</b> <b>temperature</b> <b>solid</b> <b>liquid</b> <b>gas</b> <b>melt</b> <b>precipitate</b> <b>freeze</b>
<b>Skill- Sc Enquiry---Yr4</b> Decide what to change and what to measure and observe Present data in bar charts					<b>Knowledge– Yr4</b> Be able to distinguish between solid, liquid and gas using their properties				
<b>Skill- Sc Enquiry---Yr3</b> Decide what to measure and observe Prepare own tables to record data					<b>Knowledge—Yr3</b> Give at least two properties of solid, liquid and gas				
Yr4/ 3 A	1.2	WDIKA How can animals be classified	Sort animals according to their habitats and food habits Use simple keys to classify animals	Understand a food chain is transfer of energy. Create food chains.	Create a food web from the food chains.  Explore how removal of one species from an environment, affect others?	Explain Effect of humans on destroying the habitats	Assessment	Understand animals can be classified in different ways Know the food chain always begins with a producer.  Understand how human’s activities effect the habitats and endanger species.	<b>phylum</b> <b>classification</b> <b>habitats</b> <b>adaptation</b> <b>deforestation</b> <b>human impact</b> <b>predator</b> <b>Decomposer</b> <b>Food chain</b> <b>consumer</b>
<b>Skill- Sc Enquiry-- Yr4</b> Be able to ask a range of Yes/No questions to aid sorting Be able to put appropriate headings onto intersecting Venn and Carroll diagrams					<b>Knowledge– Yr4</b> Be able to explain impact of human activities endangering species and, on the habitats. Be able to recognise that animals and plants can be classified in different ways				
<b>Skill- Sc Enquiry- Yr3</b> Spot patterns in the data particularly two criteria with no examples e.g. there are no living things with wings and no legs Suggest new questions arising from the investigation.					<b>Knowledge—Yr3</b> Able to give examples of human activities that result in endangering the species and habitats Be able to identify producer, consumer, decomposer, predator and prey				

Yr4/Yr3 A	2.1	WDIKA Food Groups	Recognise food groups and the nutrients we get from them	Understand we need to eat variety of food	What are the basic parts of a digestive system and their functions	How does our food change to poo and wee Investigate Are foods that are high in energy always high in sugar?	Assessment	We need variety of food for a healthy and fit body Organs that make up the digestive system and their function	<b>nutrition</b> <b>Digestive System</b> <b>stomach</b> <b>oesophagus</b> <b>pancreas</b> <b>tooth</b>
<b>Skill- Sc Enquiry-- Yr4</b> Present what they learnt verbally or using labelled diagrams Be able to answer their questions using simple scientific language					<b>Knowledge– Yr4</b> Be able to explain why we should eat a variety of food.				
<b>Skill- Sc Enquiry---Yr3</b> Present data in bar charts Refer directly to their evidence when answering their question					<b>Knowledge—Yr3</b> Explain what should we do to keep our body healthy and fit				
	2.2	WDIKA Why is oral hygiene important	What are the different types of teeth and their function	Structure of a tooth	Looking after your teeth  Explain tooth decay	Investigate which drinks is good for preventing tooth decay	Assessment	Types of teeth and their function Importance of teeth How to prevent tooth decay	<b>decay</b>
<b>Skill- Sc Enquiry-- Yr4</b> Suggest new questions arising from the investigation. Ask a range of questions linked to a topic					<b>Knowledge– Yr4</b> Be able to identify types of teeth and their importance Be able to explain what is tooth decay and how to prevent it				
<b>Skill- Sc Enquiry—Yr3</b> Where appropriate provide oral or written explanations for their findings Decide what to change and what to observe					<b>Knowledge—Yr3</b> Identify types of teeth and their function Explain how and why to look after the teeth				

Yr4/Yr 3 A	3. 1	WDIKA— Sound	Understand how is sound produced  Understand Sound needs a medium to travel  How does a human ear works so we can hear	Understand pitch  Investigate how pitch of a musical instrument can be changed	Investigate how you can change the volume of a sound	Investigate what happens to sound as it travels away from the source to our ears	Investigate which material is best for muffling the sound	Assessment	Know that sound needs a medium to travel  Sound is produce when an object/ medium vibrates Understand difference between pitch and volume Know when we need sound-proofing in daily life	pitch frequency  amplitude volume waves
	Skill- Sc Enquiry-- Yr4 Prepare your own tables to record data Refer directly to their evidence when answering their question								Knowledge– Yr4 Be able to understand the difference between pitch and volume	
	Skill- Sc Enquiry---Yr3 Measure using standard units where not all the numbers are marked on the scale, and take repeat readings where necessary Suggest improvements e.g. a method of taking measurements.								Knowledge—Yr3 Define pitch and volume	
	3. 2	WDIKA— Electricity	Safety while using electricity	Appliances run of mains and batteries	Explore electrical conductors and insulators. Explore their uses in daily appliances	Explore switches and their use	Investigate the properties of a material to be used as a switch	Assessment	Understand from where do we get electricity Understand electricity flows in a continuous path Know which material are electric insulators or conductors Know hazards while using electricity	conduct hazard  electricity electric current appliances mains cell
	Skill- Sc Enquiry-- Yr4 Where appropriate provide oral or written explanations for their findings Use results from an investigation to predict a further result						Knowledge– Yr4 Understand where you get electricity, how it works and how to use it safely.			
Skill- Sc Enquiry—Yr3 Ask a range of questions linked to a topic Decide what to change and what to measure or observe						Knowledge—Yr3 Know what a circuit is List ways how you can safely use electricity				