

Science

SOL (Sequence Of Learning)

Autumn

								→	Outcome	Vocabulary
Yr1	1.1	WDIKA— Materials And their properties	Distinguish between object and the material from which it is made	Identify and name variety of everyday materials including, wood, metal, plastic, glass, water and rock	Describe simple physical properties of everyday materials Absorb Insulate Waterproof	Investigate waterproof property of a material	Investigate insulation property of a material	Assessment	Understand use of material is related to its properties	absorb insulate absorbent opaque rough waterproof manufactured
	1.2	WADIKA— Seasons	Discuss weather and clothing consolidating insulate and absorb	Use of symbols to show weather	Investigate Material property of being opaque— shadows	Assessment Drawing shadows			Understand weather changes daily and climate is the weather over a long period over a large area. Shadow is formed when the material blocks the light	shadow climate weather overcast temperature sleet snow seasons
Yr2	1.1	WDIKA Habitats	Scenarios to prove if a thing was living	Why do animals and plants like to	Investigate adaptations of some	Sort and classify animals	Create simple food	Assessment	To know the 7 life processes	micro habitats micro-habitat food chain

			once, dead, living or never lived giving reasons	live in different places?	animals and plants (habitats to explore desert polar region ocean)	and plants based on what habitat you would find them	chains to show interdependence between plants and animals		Understand why do different animals live in different places Create simple food chains	litter woodland
	1.2	WDIKA Manmade or manufactured materials	names of different materials and their properties	Sorting materials according to their properties	Explore simple push and pull	Investigate Forces with relation to materials (friction and elasticity)	Investigate Properties of materials Absorption Insulation	Assessment	Understand use of material is related to its properties	manufacture transparent brick natural manufactured impermeable metal
Yr3	1.1	WDIKA Rocks and fossils	Name three types of rocks Compare and contrast the 3 different types of rocks	Investigate Properties of permeability ,hardness And acid test	WDIKA Fossils and fuels	To know what are fossils. Understand how fossils are formed. Know why fossils only be found in a sedimentary rock. Understand disadvantages of fossil fuels		Assessment	Understand how the 3 types of rocks are formed Understand uses of rocks related to their properties. Know how fossils are formed And only formed in sedimentary rocks. Disadvantages of using fossil fuels	igneous metamorphic sedimentary fossil soil topsoil compost

	1.2	WDIKA Soil	Understand how soil is formed. What is soil made up of How are the soils different	Investigate the property of permeability of soil and how it effects plant growth	Understand how compost is formed and its importance	Assessment		Understand That soils are made from rocks and organic matter Understand that the permeability of soil decides healthy plant growth.	manure decompose
Yr4	1.1	WDIKA States of matter	Sort materials into solid, liquid and gases 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?	Investigate 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?	energy temperature solid liquid gas melt precipitate freeze
	1.2	WDIKA How can animals be classified	Sort animals according to their habitats and food habits	Understand a food chain is transfer of energy. Create food chains.	Create a food web from the food chains.	Explain Effect of humans on destroying the habitats	Assessment	Understand animals can be classified in different ways	phylum classification habitats adaptation deforestation human impact predator Decomposer

			Use simple keys to classify animals		Explore how removal of one species from an environment, affect others?				Know the food chain always begins with a producer. Understand how human's activities effect the habitats and endanger species.	Food chain consumer
Yr5	1.1	WDIKA— Mixtures , Solutions, Dissolving Melting	Understand what are mixtures Different types of mixtures Heterogeneous and homogeneous	Know the difference between dissolving and mixing	Know few methods to separate different types of mixtures	Investigate how dirty water can be cleaned	Investigate processes to separate different types of mixtures	Assessment	Understand differences between mixing and dissolving Recognise processes of separating mixtures Describe how to recover a substance from a solution	heterogeneous matter mixture dissolve solution solute
	1.2	WDIKA Materials and their properties	Compare and group everyday materials based on their properties(hardness, solubility, transparency, thermal and electrical conductivity and response to magnets	Demonstrate reversible changes	Differentiate between irreversible and reversible changes with examples	Investigate reversible and irreversible changes		Assessment	Materials can be classified on basis of their properties Explain that some changes result in formation of new materials and this kind of change is irreversible	Ir/reversible changes insulator immiscible

								Demonstrate dissolving, mixing and change of state is reversible changes	
Yr6	1.1	WDIKA Classification and Microorganism	Classify living things into broad groups according to observable characteristics and based on similarities and differences Give reasons for classifying plants and animals based on specific characteristics	Know the disadvantages and advantages of microorganism	Understand how our body fights the diseases How can we prevent diseases	Importance of vaccination	Assessment	Why we need to classify things Microorganisms can be useful and harmful Diseases can be prevented	refined immunisation parasite Linnaean classification bacteria non-flowering plants microorganism
	1.2	WDIKA Evolution and Inheritance	Know the different adaptations in animals and plants to adapt to their habitat	Understand what is evolution Explain how evolution happens Why animals become extinct	Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents	How evolution happens? -what reason animals become extinct? Know the importance of study of fossils	Assessment	Understand why and how living things have changed overtime and that fossils provide information about living things that inhabited the Earth million years ago How animals are adapted	hybrid adaptation variation genetics mutation fossils evolution

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