The Piggott School: Charvil Primary



'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan We live with love and compassion, seeking help in times of need

Curriculum Map: Science Year 5

	Properties and Changes of Materials	Earth and Space	Forces	Living things and their habitats – life cycles	Animals including humans - changes
Content Declarative Knowledge 'I know'		*describe the movement of the Earth, and other planets, relative to the Sun in the solar system *describe the movement of the Moon relative to the Earth *describe the Sun, Earth and Moon as approximately spherical bodies *use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	*explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object *identify the effects of air resistance, water resistance and friction, that act between moving surfaces *recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.		_

	*demonstrate that						
	dissolving, mixing and						
	changes of state are						
	reversible changes						
	*explain that some						
	changes result in the						
	formation of new						
	materials, and that this						
	kind of change is not						
	usually reversible, including						
	changes associated with						
	burning and the action of						
	acid on bicarbonate of						
	soda.						
Skills Procedural	Plan *Plan different types of scientific enquiries to answer questions. *With prompting, recognise and control variables where necessary						
Knowledge 'I know							
how to'	understand the need for repeat readings						
	Record *Take and process repeat readings *Record data and results Record data using labelled						
	diagrams, keys, tables and charts *Use line graphs to record data						
	Review *Report and present findings from enquiries, including conclusions and, with prompting, suggest causal relationships *With support,						
	present findings from enquiries orally and in writing *Suggest further comparative or fair tests						
Vocabulary	Vocabulary from Year 4 +	Earth, planets, sun, solar	Fall, Earth, gravity, weight,	Life cycle, reproduction,	Foetus, Embryo, Womb,		
•	rigid, hard, soft, stretchy,	system, moon, celestial	mass, air resistance, water	sexual, asexual,	Gestation, Baby, Toddler,		
	flexible, waterproof,	body, spherical, rotation,	resistance, friction, moving	germination, pollination,	Teenager, Elderly, Growth,		
	absorbant,	spin, night and day, names	surfaces, mechanisms,	seed formation, seed	Development, Puberty;		
	electrical/thermal	of planets, dwarf planet,	levers, pulleys, gears, force,	dispersal, pollen, stamen,	Circulatory, Heart, Blood		
	conductivity, melting,	orbit, geocentric model,	transfers	stigma, plantlets, runners,	Vessels, Veins, Arteries,		
	dissolve, solution,	heliocentric model, shadow		mammal, amphibian,	Oxygenated,		
	insoluble, solute, solvent,	clocks, sundials,		insect, bird, fish, reptile,	Deoxygenated, Valve,		
	particle, mixture, filtering,	astronomical		eggs, live young.	Exercise, Respiration		
	sieving, residue,	clocks		eggs, ive young.	Exercise, Respiration		
	reversible/non reversible	5.55.65					
	changes, new material,						
	burning, rusting,						
	Previous vocab plus, notice patterns, relationships, independent variable, dependent variable, controlled variable, accuracy, precision, degree of						
	trust, classification keys, scatter graphs, line graphs, causal relationships, support/refute, data loggers						

Key Questions	What are things made of	What are the key features	What is gravity? What are	What are the key	What are the key stages of		
	and why? Which materials	of our solar system? How	the effects of air resistance	similarities and differences	human development?		
	would be the most	have theories of our solar	and friction on moving	in the life cycles of			
	effective for? What are	system changed over time?	objects? How do levers,	mammals, amphibians,			
	the differences between		pulleys and gears act?	birds and insects?			
	reversible and irreversible						
	changes?						
Assessment	Assessment on Insight every term as well as lesson by lesson observations based on knowledge, skills and key questions outlined above						
	Peer and self-assessment opportunities						
	Option to use White Rose End of Block assessments at teachers discretion						
Cross Curricular	Spiritual – learning about	Spiritual – learning about	Spiritual – learning about	Spiritual – learning about	Spiritual – learning about		
Links/Character	the world around them and	the world around them and	the world around them and	the world around them and	the world around them and		
Education	reflecting on experiences.	reflecting on experiences.	reflecting on experiences.	reflecting on experiences.	reflecting on experiences.		
	Social – cooperating and	Social – cooperating and	Social – cooperating and	Social – cooperating and	Social – cooperating and		
	working together	working together	working together	working together	working together		
	DT – choose best material	History – historical	DT - levers and pulleys	PSHE – changing me units	PSHE – changing me units		
	for specific purpose	misconceptions about the					
		Earth and scientists who					
		challenged these					