

West Norfolk Academies Trust (Primary) – Curriculum Map - Science

	Autumn 1 st	Autumn 2 nd	Spring 1 st	Spring 2 nd	Summer 1 st	Summer 2 nd
Year 1 Knowledge	The Human Body Naming parts of the body, Eyes and sight, Ears and hearing, touch, taste and smell, understanding sensory impairment	Animals and their Needs Wild and tame, taking care of pets, Baby animals (including humans), Describing and grouping animals	Seasons and Weather The four seasons, tools to record the weather, daily weather and weather forecasts, weather symbols, weather around the world, Floods and Hurricanes	Taking Care of the Earth The Earth's natural resources, Conservation of natural resources, logging, recycling, how pollution is caused and can be prevented	Plants and Plant Growth what plants need to grow, the parts and functions of plants, food production, flowers and seeds, deciduous and evergreens, farming, crops, pesticides, harvest, from field to supermarket	Materials and Magnets Use of magnets, classification of materials, attraction
Year 1 Vocabulary	Body, senses, sense organ, impairment, joints, vision, purpose, limbs, sight, parts of the eye, parts of the ear, taste buds, touch and smell	Wild, tame, pet, safe, kitten, puppy, omnivore, carnivore, herbivore, habitats, amphibians				
Year 2 Knowledge	Living Things and the Environment A Habitats, meadow habitats, underground habitats, rainforest habitats, desert habitats, plants	Living Things and the Environment B Food chains, oceans and undersea habitats, deep ocean habitats, over fishing and habitat destruction and damage	The Human Body The skeletal and muscular systems, exercise, digestive system and healthy eating, circulatory system, nervous system, and preventing illness, germs, diseases, vaccinations, Edward Jenner (smallpox), Louis Pasteur (milk)	Matter - Solids, Liquids, Gases concepts of atoms, matter, solids, liquids, gases, measurements	Electricity – The Shocking Facts Circuits, conductive and non-conductive materials, safety rules	Astronomy Orbit and rotation, sun, moon, planets, stars, Earth, our solar system, what's inside the Earth, surface of the Earth, volcanoes, geysers, rocks and minerals
Year 2 Vocabulary	Living, habitat, adapt, environment, survive, damage, tropical, barren	Habitat, adapt, environment, food chain, producer, consumer, predator, prey, oceans, over				

		fishing, deforestation, damage, ocean floor, ocean trench, sustainable, pollution				
Year 3 Knowledge	Cycles in Nature Life Cycles- The life cycle: birth, growth, reproduction, Butterflies life cycle Plants life cycle, amphibians life cycle, seasons, migration	The Water Cycle Evaporation, ground water, condensation and precipitation, water vapour in the air, clouds	Ecology Habitats, interdependence of organisms and their environment, producers, consumers and decomposers, food webs, fossils, balance of nature, man-made threats to the environment	The Human Body Cells, organ systems excretory system, senses, taking care of your body, a healthy diet, vitamins and minerals	Light and Optics The speed of light, transparent and opaque objects, reflection, mirrors: plane, concave, convex, use of mirrors in telescopes and some microscopes, using prisms, using lenses	Magnetism Magnets around us, lodestones, magnetic poles, magnetic field law of magnetic attraction, north and south magnetic poles, orienteering using a magnetised needle
Year 3 Vocabulary	Reproduce, fertilise, anther, pollen, ovule, mature, ripen, migrate, sprout, hatchling, frog - spawn, metamorphosis, hibernation	Evaporation, water vapour, cirrus clouds, cumulus clouds, stratus clouds, condensation, droplets, precipitation, ground water, humidity, particles, infiltration, solid, liquids, gas				
Year 4 Knowledge	Classification of Animals Cold-blooded or warm-blooded, vertebrates or invertebrates, classification groups, insect, arachnids, molluscs, animal research investigation	The Human Body The muscular system, the skeletal system, the nervous system, Eyes Ears	Geology The earths layers, how mountains are formed, rocks, weathering and erosion.	Sound How sound is created, how sound travels, sound waves, speed of sound, pitch, intensity, the human voice, hearing, protecting your hearing	Electricity Static electricity, electric current, electric circuits, and experiments with simple circuits closed circuit, open circuit, short circuit, conductors and insulators, electromagnets: how they work and common uses Using electricity safely	Meteorology Weather and climate, clouds, the atmosphere, how the sun and earth heat the atmosphere, air movement, wind direction, cold and warm fronts, forecasting the weather

Year 4 Vocabulary	Organism, vertebrate, invertebrate, spinal-column, exoskeleton, endoskeleton, cold blooded, warm blooded, insect, arachnids, molluscs, diversity	Skeleton, cranium, vertebrate, ligaments, tendons, cartilage, joints, marrow, muscles, voluntary, involuntary, nervous system, nerves, x-ray, tendons, contract, relax, eye vocabulary, ear vocabulary				
Year 5 Knowledge	The Human Body Circulation and Respiration. The circulatory system, the heart, what is blood and why do we need it? The lungs and smoking William Harvey's pioneering work	Chemistry Basic terms and concepts Atoms, properties of matter, cutting a cube, different kinds of atoms, atom elements and solutions.	States of Matter Compare and group states of matter Changing states of matter Research states of matter and how it changes using condensation, evaporation, freezing, boiling	Forces Gravity, Air resistance, water resistance and friction, pulleys, gears and levers	Life cycles and Reproduction Asexual reproduction, sexual reproduction, seeds, flowers, fertilisation, reproduction in animals, growth stages.	Astronomy The Big Bang theory, the Universe, our Solar System, Gravity, the moon and our galactic neighbourhood
Year 5 Vocabulary	Circulation, respiration, oxygenated, deoxygenated, arteries, capillaries, diaphragm, carbon dioxide, oxygen, nutrients, haemoglobin, platelets	Atom, particle, proton, neutron, electron, positive, negative, substance, element, properties, solution, solvent, soluble, insoluble, solute				
Year 6 Knowledge	Chemistry Matter and Change Atoms, John Dalton and the Elements, The Periodic Table, Molecules, Compounds, Physical and chemical changes	Classification of Living Things Why classify – classification keys, Classifying organisms (the five kingdoms), cells, plant and animal cells, fungi, protists,	Plants Photosynthesis, vascular and non-vascular plants	Light and Electricity Travel of light, light sources construction of series circuits, components, designing useful circuits	The Human Body Human growth stages, adolescence and puberty, The human reproductive system, The endocrine system, glands, circulatory system	Evolution Fossils, adaptation, characteristics passing through generations, Mary Anning, Alfred Wallace, Charles Darwin, Darwin's sketches of finches

		prokaryotes, taxonomy, Latin names, micro- organisma - vertebrates				
Year 6 Vocabulary	Atom, molecule, proton, neutron, electron, nucleus, periodic table, elements, neutral, compound, reversible, irreversible, reaction	Classification, organism, plant, animal, fungus, protists, prokaryotes, cell, nucleus, cytoplasm, mitochondria, vacuole, chloroplast, bacteria, chlorophyll				