

Note: The vocabulary is specific to year groups but is taught in units of work in mixed year groups at Chadsmead.

	Biology: Animals Including Humans						
EYFS	KS1		LK	LKS2		UKS2	
	Year 1	Year 2	Year 3	Year 4	<u>Year 5</u>	<u>Year 6</u>	
Names of body parts: Head, ear, eye, mouth, nose, face, hair, leg, knee, arm, elbow, back, toes, hands, fingers Animal diets: carnivore, herbivore, omnivore Names of animal groups: fish, amphibians, reptiles, birds, mammals.	 Human and animal body parts: e.g. body, head, neck, arms, elbows, legs, knees, face, ears, eyes, nose, hair, mouth, teeth, hands, feet, tail, wings, feathers, fur, beak, fins, gills. Human senses: sight, hearing, touch, smell, taste. Exploring senses: loud, quiet, soft, rough. Other: human, animal, pet. Previously introduced vocabulary: carnivore, herbivore, omnivore, fish, amphibians, reptiles, birds, mammals. 	Being born and growing:Young, offspring, live young, grow, develop, change, hatch, lay, fly, crawl, talk.Young and adult names:e.g. lamb and sheep, kitten and cat, duckling and duck.Life cycle stages: e.g. baby, toddler, child, teenager, adult; frogspawn, tadpole, froglet, frog.Survival and staying healthy: basic needs, survive, food, air, exercise, diet, nutrition, healthy, balanced diet, hygiene, germs.Food groups: fruit and vegetables, proteins, dairy and alternatives, carbohydrates, oil and spreads, fat, salt, sugar.Previously introduced vocabulary: water.	Food groups and nutrients:fibre, fats (saturated and unsaturated), vitamins, minerals.Skeletons and muscles: skeleton, muscles, tendons, joints, protection, support, organs, muscles, biceps, triceps, contract, relax, bone, cartilage, shell, 	Digestive system: digest, digestion, tongue, teeth, saliva, salivary glands, oesophagus, stomach, liver, pancreas, gall bladder, small intestine, duodenum, large intestine, rectum, anus, faeces, organ. Types of teeth and dental care: molar, premolar, incisor, canine, wisdom teeth, tooth decay, plaque, enamel, baby (milk) teeth. Food chains and animal diets: decomposer, food web. Previously introduced vocabulary: producer, consumer, prey, predator, excretion, habitat.	Process of reproduction: gestation, asexual reproduction, sexual reproduction, sperm, egg, cells, clone. Changes and life cycle: embryo, foetus, uterus, prenatal, adolescence, puberty, menstruation, adulthood, menopause, life expectancy, old age, hormones, sweat. Changing body parts: e.g. breasts, penis, larynx, ovaries, genitalia, pubic hair. Previously introduced vocabulary: reproduction, reproduce, types of animals and animal groups, fertilisation.	Circulatory system: circulation, heart, pulse, heartbeat, heart rate, lungs, breathing, blood vessels, blood, pump, transported, oxygenated blood, deoxygenated blood, oxygen, arteries, veins, capillaries, chambers, plasma, platelets, white blood cells, red blood cells. Lifestyle: drug, alcohol, smoking, disease, calorie, energy input, energy output. Other: water transportation, nutrient transportation, waste products. Previously introduced vocabulary: carbon dioxide.	

	Biology: Plants						
EYFS	K	S1	LK	(S2	UK	(S2	
Name some features of plants: e.g. flower, vegetable, fruit, berry, leaf/leaves, blossom, petal, stem, trunk, branch, root, seed, bulb, soil.	Year 1 <u>Names of common</u> <u>plants:</u> wild plant, garden plant, evergreen tree, deciduous tree, common flowering plant, weed, grass. <u>Name some common</u> <u>types of plant</u> e.g. sunflower, daffodil. <u>Previously introduced</u> <u>vocabulary:</u> flower, vegetable, fruit, berry, leaf/leaves, blossom, petal, stem, trunk, branch, root, seed, bulb, soil.	Year 2 Growth of plants: germination, shoot, seed dispersal, grow, food store, life cycle, die, wilt, seedling, sapling. Needs of plants: sunlight, nutrition, light, healthy, space, air. Name different types of plant: e.g. bean plant, cactus. Names of different habitats: e.g. rainforest, desert. Previously introduced yocabulary:	Year 3 Water transportation: transport, evaporation, evaporate, nutrients, absorb, anchor. Life cycle of flowering plants: pollination (insect/wind), pollen, nectar, pollinator, seed formation, seed dispersal (animal/wind/water), reproduce, fertilisation, fertilise, stamen, anther, filament, carpel (pistil), stigma, style, ovary, ovule, sepal, carbon dioxide.	Year 4 Previous vocabulary is revisited during discrete units of work	Year 5 Previous vocabulary is revisited during discrete units of work	Year 6 Previous vocabulary is revisited during discrete units of work	
		Previously introduced vocabulary: water, temperature, warm, hot, cold, habitat.	dioxide. <u>Previously introduced</u> <u>vocabulary:</u> life cycle.				

	Bio	logy: Living	y Things and Their Habitats				
EYFS	K	KS1		LKS2		UKS2	
	Year 1	Year 2	Year 3	Year 4	<u>Year 5</u>	<u>Year 6</u>	
	Previous vocabulary is revisited during discrete units of work	Living or dead: living, dead, never living, not living, alive, never been alive, healthy. Habitats including microhabitats: depend, shelter, safety, survive, suited, space, minibeast, air. Life processes: movement, sensitivity, growth, reproduction, nutrition, excretion, respiration. Food chains: food sources, food, producer, consumer, predator, prey. Names of habitats and microhabitats: e.g. under leaves, woodland, rainforest, sea shore, ocean, urban, local habitat. Previously introduced vocabulary: senses, carnivore, herbivore, omnivore, seed, water, names of materials.	Previous vocabulary is revisited during discrete units of work	Living things: organisms, specimen, species. Grouping living things: classification, classification keys, classify, characteristics. Names of invertebrate animals: snails and slugs, worms, spiders, insects. Invertebrate body parts: e.g. wing case, abdomen, thorax, antenna, segments, mandible, proboscis, prolegs. Environmental changes: environment, environment, dangers, adapt, natural changes, climate change, deforestation, pollution, urbanisation, invasive species, endangered species, extinct. Previously introduced vocabulary: carbon dioxide, fish, bird, mammal, amphibian, reptile, skeleton, bone, vertebrate, invertebrate, backbone, names for animal body parts, names of common plants, photosynthesis.	Reproduction: asexual reproduction, sexual reproduction, gestation, metamorphosis, gametes, tuber, runners/side branches, plantlet, cuttings, embryo, adolescent, penis, vagina, egg, pregnancy, gestation. Previously introduced vocabulary: life cycle, pollination, offspring, fertilise, fertilisation, sepal, filament, anther, stamen, pollen, petal, stigma, style, ovary, carpel, ovule, stem, bulb, roots, mammal, adult, baby, sperm, cells, live young.	Classifying: Carl Linnaeus, Linna system, flowering an non-flowering plants variation. <u>Microorganisms:</u> bacteria, single-celled, microb microscopic, virus, fu fungus, mould, antib yeast, ferment, microscope, decomp	

	Biology: Evolution and Inheritance						
EYFS	KS1		LK	LKS2		UKS2	
Other: Fossil, Carnivore, omnivore, herbivore, features of dinosaurs.	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	Year 4	<u>Year 5</u>	Year 6 Evolution and inheritance: evolve, adaptation, inherit, natural selection, adaptive traits, inherited traits, mutations, theory of evolution, ancestors, biological parent, chromosomes, genes, Charles Darwin. Other: selective breeding, artificial selection, breed, cross breeding, genetically modified food, cloning, DNA. Previously introduced vocabulary: classification, offspring, characteristics, habitat, environment, adapt, variations, human, fossil, suited, cells, names of different habitats, names of animals and their body parts, species, sedimentary rock, lava, igneous rock, metamorphic rock, magma, heat, fossilisation.	

Physics: Seasonal Changes						
EYFS	KS1		LKS2		UK	S2
	Year 1	Year 2	Year 3	<u>Year 4</u>	<u>Year 5</u>	Year 6
Seasons: spring, summer, autumn, winter, Day length: night, day, daylight.	Seasons: seasonal change.Weather: e.g. sun, rain, snow, sleet, frost, ice, fog, cloud, hot/warm, cold, storm, wind, thunder, weather forecast.Measuring weather: temperature, rainfall, wind direction, thermometer, rain gauge.Previously introduced vocabulary: spring, summer, 	Previous vocabulary is revisited during discrete units of work				

Physics: Forces and Magnets						
EYFS	KS1		LKS	2	UK	S2
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Previous vocabulary is revisited during discrete units of work	Previous vocabulary is revisited during discrete units of work	How things move: move, movement, surface, distance, strength.Types of forces: push, pull, contact force, non-contact force, friction.Magnets: magnetic, magnetic field, magnetic force, bar magnet, horseshoe magnet, ring magnet, magnetic poles (north pole, south pole), attract, repel, compass.Magnetic and non- magnetic materials: e.g. iron, nickel, cobalt.Previously introduced vocabulary: 		 Types of forces: air resistance, water resistance, buoyancy, upthrust, Earth's gravitational pull, gravity, opposing forces, driving force. Mechanisms: levers, pulleys, gears/cogs. Measurements: weight, mass, kilograms (kg), Newtons (N), scales, speed, fast, slow. Other: streamlined, Earth. Previously introduced vocabulary: air, heat, moon. 	

Physics: Light						
EYFS	K	61	LKS	2	U	KS2
EYFS	Year 1	<u>Year 2</u>	Year 3Light and seeing: dark, absence of light, light source, illuminate, visible, shadow, translucent, energy, block.Light sources: e.g. candle, torch, fire, lantern, lightning. Reflective light: reflect, reflection, surface, ray, scatter, reverse, beam, angle, mirror, moon.Sun safety: dangerous, glare,	2 Year 4	<u>Year 5</u>	KS2 Year 6 Reflection: periscope. Seeing light: visible spectrum, prism. How light travels: light waves, wavelength, straight line, refraction. Previously introduced vocabulary: names and properties
			damage, UV light, UV rating, sunglasses, direct. Previously introduced vocabulary: opaque, transparent, sunlight, sun.			of materials, absorb.

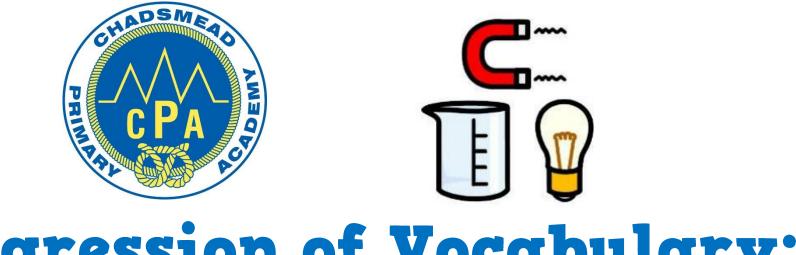
Physics: Sound						
EYFS	K	61		LKS2	UK	S2
Measuring sound: loud, quiet, volume, sound	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	Year 4 Parts of the ear: eardrum. Making sound: vibration, vocal cords, particles. Measuring sound: pitch, volume, amplitude, sound wave, quiet, loud, high, low, travel, distance Other: soundproof, absorb sound.	<u>Year 5</u>	<u>Year 6</u>

Physics: Earth and Space					
EYFS	KS1 LKS2		UKS2		
<u>Solar System:</u> Planet, star, Earth, Moon, space, Sun	Year 1 Yea	<u>Year 3</u> <u>Year 4</u>	Year 5Solar system: star, planet.Mames of planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Neptune, Uranus.Shape: spherical bodies, sphere, oblate spheroidMovement: rotate, axis, orbit, satellite.Theories: geocentric model, heliocentric model, 	<u>Year 6</u>	

Physics: Electricity						
EYFS	K	S1		LKS2	U	IKS2
	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	Year 4Electricity: mains-powered, battery-powered, mains electricity, plug, appliances, devices.Circuits: circuit, simple series circuit, incomplete circuit.Circuit parts: bulb, cell, wire, buzzer, switch, motor, battery.Materials: electrical insulator.Other: safety.previously introduced vocabulary: names of materials.	<u>Year 5</u>	Year 6 Flow and measure of electricity: voltage, amps, resistance, electrons volts (V), current. Circuits: symbol, circuit diagram, component function, filament. Variations: dimmer, brighter, louder, quieter. Types of electricity, human-made electricity, solar panels, power station Other: positive, negative.

Chemistry: Materials (including Rocks)

EYFS	K	S1	LK	(S2	UK	(S2
Names of materials: wood, plastic, glass, metal, water, rock, paper, cardboard, rubber, fabric. Properties of materials: Hard, soft, rough, smooth	Year 1 Properties of materials: shiny, dull, stretchy, rough, smooth, bendy, not bendy, transparent, opaque, waterproof, absorbent, not absorbent, sharp, stiff. Other: object. Previously introduced vocabulary: wood, plastic, glass, metal, water, rock, paper, cardboard, rubber, fabric, smooth, rough, soft, hard	Year 2 Changing shape: squash, bend, twist, stretch. Properties of materials: e.g. strong, flexible, light, hard-wearing, elastic. Other: suitability, recycle, pollution.	Year 3 Types of rock: sedimentary rock, igneous rock, metamorphic rock. Properties of rocks: permeable, semi- permeable, impermeable, durable. Names of rocks: e.g. marble, chalk, granite, sandstone, slate. Formation of rocks and fossils: natural, human-made, magma, lava, molten rock, sediment, erosion, fossilisation, layers, bone, fossil. Soil: sandy, chalky, clay, peaty, loamy, topsoil, subsoil, bedrock, mineral, organic matter, compost. Other: palaeontology. Previously introduced vocabulary: soil, water, air.	Year 4 States of matter: solids, liquids, gases, particles. State change: evaporate, condense, melt, freeze, heat, cool, melting point, freezing point, boiling point, water vapour. Water cycle: precipitation, evaporation, condensation, ground run-off, collection, underground water, bodies of water (sea, river, stream), water droplets, hail. Other: atmosphere. Previously introduced vocabulary: temperature, rain, cloud, snow, wind, sun, hot, cold, absorb, carbon dioxide.	Year 5 Properties of materials: thermal conductor/insulator, magnetism, electrical resistance, transparency. Mixtures and solutions: dissolving, substance, soluble, insoluble. Changes of materials: reversible change, physical change, physical change, chemical change, burning, new material, product. Separating: sieving, filtering, magnetic attraction. Previously introduced vocabulary: electrical conductor/insulator, bulb, translucent.	<u>Year 6</u>



Progression of Vocabulary: <u>Working Scientifically</u>

EYFS	KS1	LKS2	UKS2
Experiment	aim	accurate	accuracy and precision
Fair	answers	bar chart	bar graphs
Find out	block diagrams	chart	causal relationship
Explain	changes	classify	degree of trust

Reason	compare	comparative test	dependent variable
Nhy?	describe	conclusion (What have we found out?)	independent variable
Change	difference	criteria	justify
	different	data	line graphs
	enquiry	develop	refute
	equipment	diagram	repeat results
	experience	evaluate	scatter graphs
	explore	evidence	support
	findings	explanation	variables (what do we change, what do we
	gather	key	keep the same, how and what are we
	group	making a test fair	measuring?)
	identify (name)	method	
	investigate	observations	
	measure	plan (What will we do?)	
	notice	practical enquiry	
	observe	prediction (What do you think will happen?)	
	patterns	primary sources	
	pictograms	questioning	
	questions	reasoning	
	record	relationships	
	same	results (What happened?)	
	similarity	secondary sources	
	simple tables	standard units	
	sort	table	
	sorting diagrams	What do we change, what do we keep the	
	tally charts	same, what are we measuring?	
	test		
	What will we do? (plan)		
	What do you think will happen? (prediction)		
	What happened? (results)		
	What have we found out? (conclusion)		