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| Bedford Drive Primary School | | | | | | |
| **Science Vocabulary Progression** | | | | | | |
| **EYFS** | In Science, we look at the world around us. Scientists try to find out how and why things happen.  Scientists learn about their subject by observing (looking at things) and experimenting (testing things).  Key Vocabulary:  Scientist  Experiment  Earth  Natural/Man-Made  Season  Animal  Plant  Environment  Healthy  Texture | | | | | |
| **Year Group** | Working Scientifically | Topics | | | | |
| **Year 1** | **Working Scientifically**  Question, find out, observe, describe, test, compare  Measure, length, height, mass/weight, time, temperature  Record, results, table, chart, pictograph, block graph, bar chart | **Plants**  Leaves, flowers, blossom, petals, fruit, roots, bulb, seed, trunk, branches, stem  Names of plants in their local environment for example Grass, Clover, Daisy, Buttercup, Dandelion, Oak, Holly, Daffodil, Tulip etc. and plants they grow to eat such as lettuce, tomatoes, cucumber, radish, herb etc. | **Animals including humans**  Fish, amphibian, reptile, bird, mammal  Common names of Fish, amphibians, reptiles, birds, mammals including pets and those found in the local environment  Common structure of animals including humans including : Head, face, ears, hair, eyes, nose, mouth, teeth, cheek, chin, neck ,body, arms, hands, fingers, paws, fins, wings, legs, feet, toes, tail, skin, scales, fur, feathers  Herbivore, carnivore, omnivore  See, look, hear, listen, touch, feel, taste, smell | **Everyday materials**  Wood, plastic, glass, metal, water, rock, brick, paper, card, rubber, fur, fleece, cotton, wool, polyester, cotton wool.  Names of common objects made from these materials e.g. door, building block, window, pencil sharpener, teddy etc  Soft, hard, rough, smooth, stretchy, stiff, shiny, dull, rough, smooth, flexible, waterproof, absorbent, opaque, transparent, translucent | **Seasonal Changes**  Spring, summer, autumn, winter  Day, night, light, dark, sunrise, sunset  Sun, rain, snow, hail, precipitation, wind, cloud, cloud cover  Deciduous, evergreen tree |  |
| **Year 2** | **Working Scientifically**  Question, find out, observe, describe, test, compare  Measure, length, height, mass/weight, time, temperature  Record, results, table, chart, pictograph, block graph, bar chart | **Plants**  Seeds, bulbs, grow, healthy, water, light, temperature, soil, nutrients  Leaves, flowers, blossom, petals, fruit, roots, trunk, branches, stem  Names of plants in their local environment for example grass, Clover, Daisy, Buttercup, Dandelion, Oak, Holly, Daffodil, Tulip etc. and plants they grow to eat such as lettuce, tomatoes, cucumber, radish, herb etc. | **Animals including humans**  Reproduce, offspring, grow, adults (Fish, amphibian, reptile, bird, mammal, humans)  Survival, water, food, air, shelter  Exercise, fit, healthy, food, fruit, vegetables, meat, fish, eggs, nuts, pulses, beans, milk, cheese, bread, pasta, rice, butter, vegetable oil, olive oil  Common names of Fish, amphibians, reptiles, birds, mammals including pets and those found in the local environment  Common structure of animals including humans including : Head, face, ears, hair, eyes, nose, mouth, teeth, cheek, chin, neck ,body, arms, hands, fingers, paws, fins, wings, legs, feet, toes, tail, skin, scales, fur, feathers  Herbivore, carnivore, omnivore | **Uses of Everyday materials**  Wood, plastic, glass, metal, water, rock, brick, paper, card, rubber, fur, fleece, cotton, wool, polyester, cotton wool.  Words to describe why certain materials are suitable for particular uses e.g. soft, hard, rough, smooth, stretchy, stiff, shiny, dull, rough, smooth, flexible, waterproof, absorbent, opaque, transparent, translucent  Squash, bend, twist, stretch | **Living things in their habitats**  Living, dead, non-living  Habitat, micro habitat, food chain  Field, Hedgerow, pond, woodland, seashore, ocean, rainforest, arctic, desert,  Air, food, water, shelter, heat, warmth, sun |  |
| **Year 3** | **Working Scientifically**  Question, find out, observe, describe, test, compare, explain, accurate, predict  Measure, length, height, mass/weight, time, temperature, tape measure, thermometer, data logger  Record, results, table, chart, pictograph, block graph, bar chart | **Plants**  Leaves, flowers, blossom, petals, fruit, roots, bulb, seed, trunk, branches, stem, stigma, style, anther  Air, light, water, nutrients, soil, transport, seed, seedling, bulb, compost, decay, die, fruit, moisture, ovary ovule  Pollen, pollination, seed formation, dispersal, reproduce | **Animals including humans**  Humans, food, feeding, balanced, diet ,meat, fish, eggs, nuts, pulses, beans, cereal, fruit, vegetables, dairy products milk , cheese, butter, potatoes , bread, rice, pasta, vitamins, minerals  Fish, amphibian, reptile, bird, mammal  Skeleton, skull, ribs, spine (backbone), joints, support, muscles, | **Rocks**  Rocks, granite, limestone, sandstone, fossil, soil, sandy, peat, decay, compost  Soft, hard, rough, smooth, stiff, shiny, dull, rough, waterproof, absorbent, opaque, transparent, translucent, texture | **Light**  See, eyes, light, dark, absence  Light sources, Sun, dangerous, lamp, flame, torch, light bulb,  Day, night, light, dark, dim, sunrise, sunset, dusk  Reflect, reflection, reflected, shadows, size, shape, pattern | **Forces and magnets**  Force, contact, non-contact  Move, surface, material, carpet, tiles, wood, lino, bubble wrap, sandpaper, fleece, polythene, towel  Magnet, magnetic, magnetic field, bar, horseshoe, ring, strength, strong, weak, metal, coated,  Attract, repel, poles, north, south |
| **Year 4** | **Working Scientifically**  Question, find out, observe, describe, test, compare, explain, accurate, predict  Measure, length, height, mass/weight, time, temperature, tape measure, thermometer, data logger  Record, results, table, chart, pictograph, block graph, bar chart, line graph. | **Living things in their habitats**  Classify, classification, animal, vertebrates, fish, amphibians, reptiles, birds, mammals, invertebrates, snails, slugs, worms, spiders, insects, flowering plants, non-flowering plants, ferns, mosses, fungi.  Environment, habitat, micro habitat, adaption, human impact, ecological, ecosystem, nature reserves, parks, ponds, pollution, litter, deforestation, field, hedgerow, pond, woodland, seashore, ocean, rainforest, arctic, desert, nest, burrow, air, food, water, shelter, heat, warmth, sun, camouflage. | **Animals including humans**  Digestion, mouth, teeth, tongue, saliva, oesophagus, stomach, gastric juices, enzyme, small intestine, bile, pancreatic juice, large intestine, rectum.  Incisors, cut, slice, canines, grip, pierce, premolars, molars, crush, grind, dental, dentist, disclosing tablets.  Food chain, producers, predators, prey, herbivore, carnivore, omnivore. | **States of matter**  Solids, liquids, gases  Change state melt, freeze, heated, cooled, temperature, Celsius, chocolate, butter, ice, water, steam, water vapour,  Water cycle, evaporation, condensation, rate, precipitation, rain, rain fall, snow, sleet. | **Electricity**  Electrical appliances, mains, battery, television, computer, tablet, mobile phone, light, lamp, cooker, microwave, toaster, radio.  Component, bulb, buzzer, battery, cell, wire, motor, switch, open, closes, circuit, series, complete loop, bright, brightness, current  Electrical insulator, plastic, fabric, electrical conductor, metals, water | **Sound**  Sound, sources, vibrating, medium, ear, eardrum, instruments, pitch, high, low, volume, loudness, loud, soft, quiet, insulation, sound proof, distance, fainter. |
| **Year 5** | **Working Scientifically**  Question, find out, observe, describe, test, compare, explain, accurate, predict  Measure, length, height, mass/weight, time, temperature, tape measure, thermometer, data logger  Record, results, table, chart, pictograph, block graph, bar chart, line graph, reliable, variables, valid, explain | **Living things in their habitats**  Life cycle, reproduction, asexual, sexual, animal, vertebrates, amphibians, reptiles, birds, mammals, invertebrates, insect , babies, young, grow, adult, egg, caterpillar, larva, chrysalis, pupa, head, abdomen, thorax, wings, fur, feathers, scales, plants, seeds, stem, root cuttings, tubers, bulbs, pollen, Leaves, flowers, blossom, petals, fruit, roots, bulb, seed, trunk, branches, stem, stigma, style, anther, ovary, ovule, seed formation, seed dispersal | **Animals including humans**  Humans, gestation, baby, child, teenager, adult, geriatric, puberty, hormones, muscles, testicles, pubic hair, voice , acne, breasts, hips, period, ovulation | **Properties and changes of materials**  Soft, hard, rough, smooth, stiff, shiny, dull, rough, waterproof, absorbent, opaque, transparent, translucent, texture, conduct, insulate, electrical, thermal, magnetic.  Solids, liquids, gases, dissolve, solution, substance, separated, filtering, sieving, evaporating, reversible, irreversible state, burning, oxygen, acid, bicarbonate of soda, carbon di oxide  Change state melt, melting, freeze, heated, cooled, temperature, Celsius, chocolate, butter, ice, water, steam, water vapour, water cycle, evaporation, condensation, rate, precipitation, rain, rain fall, snow, sleet.. | **Earth and space**  Day, night, light, dark, dim, sunrise, sunset, dusk, Earth, moon, moons, reflect, sun, star, spherical, rotation, Earth’s axis, solar system, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune ( Pluto as a dwarf planet), shadow clock, sundials, astronomical clock | **Forces and magnets**  Force, contact, non-contact, gravity, falling, friction, air resistance, water resistance, newton, force metre, drag, levers, pulleys, gears. Move, surface, material, carpet, tiles, wood, lino, bubble wrap, sandpaper, fleece, polythene, towel |
| **Year 6** | **Working Scientifically**  Question, find out, observe, describe, test, compare, explain, accurate, predict  Measure, length, height, mass/weight, time, temperature, tape measure, thermometer, data logger  Record, results, table, chart, pictograph, block graph, bar chart, line graph, reliable, variables, valid, explain | **Living things in their habitats**  vertebrates, amphibians, reptiles, birds, mammals, invertebrates, insects, spiders, snails, worms, head, abdomen, thorax, wings, fur, feathers, scales, plants, micro-organisms, kingdom, species | **Animals including humans**  Blood, heart, heart rate, circulation, oxygen, lungs, veins, arteries, cells, pulse rate, healthy diet, exercise, drugs, nutrients, water | **Evolution and inheritance**  Fossils**,** evolution, evolve, inherit, inheritance, offspring, vary, variation, species, adapted, environment, climate, habitat, suited | **Electricity**  Component, bulb, buzzer, battery, cell, wire, motor, switch, open, closes, circuit, series, complete loop, bright, brightness, current, volume, volts, voltage, symbols, circuit diagram | **Light**  See, eyes, light, straight lines, reflect, reflected, reflection, light sources, shadows, size, shape, pattern, mirrors, (possibly extend to include rainbows, colour, colour filters, water, refraction) |