

# Oakwood Academy Science

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Willows 1	Life cycles Mammals, Amphibians, Insects, Birds					What makes a Scientist & Recap / Review	Properties of materials Magnetism, Transparency, Hardness, Insulators and conductors					Animals including humans The human life cycle, Babies and children, Adolescence and puberty, Adults and the elderly, Gestation periods, Lifespan					Sound Vibrations, The ear, Volume, Pitch,			Space The solar system, The planets, Modelling, Motion, Night and day			Forces Friction, Air resistance, Water resistance, Gravity			Votes for schools	Heart and circulatory system Blood, The heart, Blood flow in the heart, Oxygenated blood			Sustainability								
Willows 2	Electricity symbols, Series circuits, Complete and incomplete circuits, Voltage					Inspiration of scientists Recap & review	Reversible and irreversible					Living things and their habitat Conditions for life, Group organisms, Classifying, Microorganisms, Classify organisms, Carl Linnaeus					Light How we see, Light and straight lines, Shadows, Refraction			Adaptations and variation										Votes for schools	Reproduction Animal reproduction, Reproductive parts, Reproduction in plants, Asexual reproduction, Cloning plants			Sustainability				
Year 7 New	Intro To Science	The Particle Model States of matter, Properties, Matter made from particles, Particle arrangement, Particle theory, Diffusion, Air pressure			Cells Life Processes Organs, Tissues, Cells, Organ systems, Transplants		Votes for schools - should all animals be treated the same? Recap & review	Energy Energy from food Energy transfer and stores Fuels, Using resources, making changes		Muscles and bones Fitness, The skeleton, Muscles and blood, Muscles and moving, Drugs and sport		Acids and Alkalis (Uses of acids and alkalis, the pH scale) Chemistry in the home, Hazards, Indicators, Acidity and alkalinity, Neutralisation, Neutralisation in daily life.		Current electricity Current, Models for circuits, Series and parallel circuits, Changing the current		Ecosystems Habitats, adaptations, changes to environment, finding food, Food chains and food webs, Feeding evidence, Plant defences		Forces Different forces, measuring force, springs, friction, pressure, balance and unbalanced forces		Simple chemical reactions Knowing a reaction has occurred, metals and acids, metals reacting with oxygen, fuels, Explosives		Variation and Classification What is variation, continuous or discontinuous, Inherited variation, Environmental variation, Classification,		Mixtures and separation Solutions, Evaporation, Distillation, Chromatography, Filtration		Sound What causes sounds, Volume, Pitch, Frequency, Moving sounds, The ear, Sounds waves		Sustainability										
Year 8 Pathway 1	Reproduction Animal reproduction, Fertilisation, Reproductive organs, Becoming pregnant, Gestation and birth, Puberty and adolescence			Food and Nutrition Nutrients, Balanced diet, Malnutrition, Digestion, Absorption		Smashing stereotypes in Science & Recap / Review	Fluids Particle model, Changing state, pressure in fluids, Floating and sinking, Drag		Combustion / Environmental chemistry Combustion reactions, Oxidation, Fire triangle, Fire Safety, Air pollution, Global warming		Breathing and Respiration Aerobic respiration, gas exchange, Getting oxygen, Anaerobic respiration,		The periodic Table Materials, Elements, Periodic table organisation, Trends, Chemical trends		Light How light travels, reflection, Refraction, Eyes, Colour		Rocks Rocks and their uses, Structure of the Earth, Igneous, Metamorphic, Sedimentary, Weathering and erosion		Energy Transfer Temperature Changes, Radiation, Conduction, Convection, Reducing transfer, Power and efficiency, Paying for energy		Earth & Space Seasons, Magnetic earth, Gravity in Space, Beyond the Solar System, Studying Space		Votes for schools - Do you think alien life exists? Recap & review	Plants and their reproduction Classification and biodiversity, Sexual and asexual reproduction, Pollination, Fertilisation and dispersal, Germination and growth		Ecological relationships Grouping organisms, Collecting data about habitats, Organisms and their environment, Populations, Energy in food webs, Damaging food webs, Extinction		Sustainability										
Year 9 Pathway 1	Unicellular Organisms Unicellular vs multicellular, microscopic fungi, bacteria, protist, Decomposers		Careers in Science & Recap / Review	Metals and their uses Metal properties, Corrosion, Metals and water, metals and acids, Pure metals and alloys		Forces and Motion Balanced and Unbalanced forces, Turning forces, Pulleys and Levers		Fit and Healthy Fitness, Respiratory system, Smoking, Diet, Alcohol, Healthy choices, Drugs		Votes for schools - Should we be worried about vaping? Recap & review	Force fields and Electromagnets Gravitational fields, Static electricity, Current electricity, Resistance, Electromagnets		Making materials Ceramics, Polymers, Composite materials, Problems with materials, Recycling Materials, Material failures		Energy and electricity Forms of energy, Voltage, Energy in the home, Paying for electricity, How is electricity produced, Wasted energy		Plant Growth Photosynthesis, Respiration, Plant adaptations, Plant products, Growing crops, Farming Problems		Reactivity Physical or chemical, Reactivity, Energy and reactions, Displacement, Extracting Metals		Gravity and Space Gravity & Weight, Changing ideas, The Sun, Satellites, Exploring space,		Genetics and Evolution Inherited characteristics, Varieties		Speed Calculating speed, Speed and forces, Drag, Top Speed, Distance time graphs		Sustainability											
Year 10 Pathway 1 Entry / GCSE	Dead or Alive			Physical and Chemical Changes			Getting the Message	Everything in it's place		Full Spectrum/Medical Rays		Babies		Acids & Alkalis		Hot Stuff		Fooling Your Senses		Extinction		Novel Materials		Alternative Energy		Fuels		Gasping For Breath		Sorting Out		Creepy Crawlies						
Year 10 Pathway 2 ASDAN	Dead or Alive Inc. ASDAN Module 4 - Task 1			Physical and Chemical Changes			Getting the Message	Everything in it's place		Full Spectrum/Medical Rays Inc. ASDAN Module 1 Task 1		Babies		Acids & Alkalis Inc. ASDAN Module 3 Task 2 & 6		Hot Stuff		Fooling Your Senses Inc. ASDAN Module 1 Task 2 & Module 4 Task 4		Extinction Inc ASDAN Module 4 Task 3 & 7		Novel Materials		Alternative Energy ASDAN Module 3 Task 1		Fuels		Gasping For Breath		Sorting Out		Creepy Crawlies						
Year 11 Pathway 1 Entry / GCSE	Fly me to the moon		How Fast? How Slow? & Coursework		Attractive Forces		Casualty		Are You Overreacting?		Pushes and Pulls		You Only Have One Life - Look After It		Heavy Metal		Driving Along		Final Frontiers		Body wars		Body wars		Let's Get Together		Food factory		Our Electricity Supply		Sustainability - Clean air and water		Science careers		Transition			
Year 11 Pathway 2 ASDAN	Fly me to the moon Inc. ASDAN Module 5 Task 2 & 5/7		How Fast? How Slow? ASDAN Module 3 Task 4		Attractive Forces		Casualty		Are You Overreacting?		Pushes and Pulls		You Only Have One Life - Look After It Inc. ASDAN Modul 1 Task 6 & 7		Heavy Metal		Driving Along		Final Frontiers Inc. ASDAN Module 5 - Task 3 & 6		Body wars		Body wars		Let's Get Together		Food factory		Our Electricity Supply		Sustainability - Clean air and water		Science careers		Transition			