

Securing Essential Knowledge at Chew Valley School – Science

Science @CVS

<u>Year 7 Units</u>	https://sparxscience.com/
Block 1	
Foundations of Science: Science skills, cells, particles and forces.	F351, F735, F736, F737, F181, F580, F417, F897, F399, F296, F156, F323, F348, F927, F410, F511, F298, F667, F251, F882, F152, F739, F908, F609, F612, F516, F893, F202, F455, F944, F345, F377, F985, F479, F913, F463, F438, F835, F492, F196, F312, F409, F755, F606
Block 2	
Particles	F377, F985, F479, F913, F463, F438, F722, F946, F536
Cells, Tissues and Organs	F739, F908, F609, F612, F516, F893, F202, F455, F944, F345
Forces and Speed	F835, F492, F196, F312, F409, F755, F606, F886, F331, F646
Block 3	
Energy: Types of energy, energy transfers, fuels, power stations.	F353, F243, F582, F725, F541, F194, F597, F783, F645
Chemical Reactions: Physical and chemical changes, various types of chemical reaction.	F627, F553, F758, F302, F686, F921, F140, F788, F564
Reproduction and Puberty : The life cycle and reproductive system of animals and plants.	F535, F332, F677, F857, F959, F819, F318, F235, F278, F233
Microbes and Disease	F944, F980
Acids and Bases	F905, F780, F385, F749, F223, F965
Block 4	
Space	F712, F855, F971, F869, F866, F969, F204, F993
<u>Key Vocabulary Lists</u>	

<u>Year 8 Units</u>	
<u>Block 1</u>	
Periodic Table and Groups	F273, F343, F940, F782, F632, F203
Light and Sound	F810, F247, F990, F439, F201, F814, F903, F307, F744, F891, F850, F676, F996
Food Chains and Ecosystems	F568, F800, F473, F215, F832, F402, F791, F948
<u>Block 2</u>	
Digestive System	F605, F550, F690, F719, F411, F557, F815, F980
Environmental Chemistry	F431, F697, F401, F190, F549, F185, F720, F464
Heating and Cooling	F772, F292, F466, F675, F129, F243
<u>Block 3</u>	
Skeleton Circulation and Breathing	F290, F149, F611, F389, F183, F523, F818, F513, F105, F226, F764, F297, F950, F638, F216, F584, F188
Electricity	F218, F517, F456, F367, F210, F767, F234, F817, F742, F868, F705, F862
<u>Block 4</u>	
Useful things from Rocks	F284, F957, F922, F400, F431
<u>Key Vocabulary Lists</u>	

<u>Year 9 Units</u>	
Block 1	
Magnetism	F610, F130, F895, F256
Genetics and Inheritance	F718, F336, F280, F592, F288, F481, F161, F836, F491, F395, F778
Drugs and Lifestyle	F326, F987, F248
Reactivity	F722, F749, F965, F564, F986
Block 2	
Periodic Table	F273, F343, F940, F782, F632, F203, F102, F898, F131, F240, F720, F260, F464
Cells	F739, F908, F609, F612, F516, F893, F455, F944, F345
Energy and Motion	F353, F243, F574, F565, F886, F331, F270, F983, F503
Block 3	
Measurements, variables, graphs, handling data.	F351, F735, F736, F737, F846, F181, F580, F417, F897, F410, F511, F298, F927, F399, F348, F296, F667, F251, F882
<u>Key Stage 3 Vocabulary Lists</u>	

KS4 Combined Science (All students)	
Biology	
Cell biology	R848, R489, R220, R976, R878, R585, R368, R264, R949, R786
Organisation	R154, R667, R800, R806, R652, R673
Infection & response	R329, R417, R366, R421, R582, R938, R328
Bioenergetics	R827, R732, R336, R268, R545
Homeostasis	R213, R936, R832, R379, R651, R910
Inheritance & evolution	R320, R969, R249, R276, R738, R754, R175
Ecology	R504, R226, R750, R453, R618, R824, R325, R124
Chemistry	
Atomic structure & PT	R447, R333, R994, R793, R945, R684, R468, R925, R580
Bonding & structure	R868, R467, R928, R211, R983, R627, R876, R338, R444, R901
Quantitative	R533, R195, R497, R807
Chemical changes	R681, R981, R828, R142, R885, R529
Electrolysis	R298, R672, R279
Energy changes	R833, R675
Rates & equilibrium	R771, R895, R601, R768
Organic	R526, R205, R837, R240
Analysis	R281, R256, R638, R720, R443
Atmosphere	R225, R391, R728, R221
Using resources	R912, R208, R898, R826, R228
Physics	
Energy	R393, R180, R704, R751, R544, R602, R666, R496, R911, R476
Electricity	R780, R274, R779, R959, R302, R409, R121, R361, R773
Particle model	R136, R252, R161, R791, R621, R641, R614
Forces & motion	R197, R853, R590, R307, R598, R314, R374, R908, R760, R893, R138, R519, R823, R134
Waves	R186, R103, R569, R452, R288, R992, R919, R993
Magnetism & EM	R847, R882, R342, R344

Maths skills for science	R921, R778, R502, R100, R471, R414, R235, R703, R148, R322, R340, R185
Working scientifically	R662, R184, R787, R457, R229, R397, R941, R756, R146, R880, R352, R230, R784
KS4 Combined Science (Higher only)	
Biology	
Cell biology	R979
Homeostasis	R493, R275
Inheritance & genetics	R609
Chemistry	
Atomic/Formulae	R671
Quantitative	R223, R624, R143, R380
Chemical changes	R245, R495, R309, R629
Electrolysis	R792
Energy changes	R769
Rates & equilibrium	R115
Using resources	R403
Physics	
Energy	R593
Forces & motion	R744, R589, R176, R597, R980, R695
Waves/EM	R556
Magnetism & EM	R766, R206, R931
KS4 Separate Science	
Biology	
Infection & response – Monoclonal antibodies	R691, R486

Plant pathology	R746, R914, R632
Homeostasis – Brain (overview)	R838
Homeostasis – Treating brain disease	R464
Homeostasis – Eye structure & issues	R850, R369, R864
Homeostasis – Thermoregulation	R160
Kidneys & balance	R445, R591, R141, R570
Plant hormones	R782, R201, R730
Reproduction & genetics – separate content	R668, R794, R295, R909, R859, R492, R157, R733, R189
Ecology – decay & trophic topics	R687, R152, R863, R555, R438, R305, R292, R311, R177
Chemistry	
Quantitative (advanced/sep only)	R804, R262, R985, R332
Chemical changes – titration	R539, R892, R297
Organic chemistry (separate only)	R418, R900, R613, R465, R508, R371, R723, R692
Analysis – ion tests & instrumentation	R172, R755, R487, R364
Using resources – materials & industry	R561, R907, R920, R287, R511, R163, R541
Bonding – nanoparticles	R530, R957
Periodic table – Transition metals	R843
Physics	
Energy – insulation practical	R312
Electricity – electrostatics	R147, R151
Particle model – pressure/volume & work	R951, R989
Atomic – radiation contexts	R690, R326, R316, R388
Forces – moments & fluids	R563, R324, R473, R564, R129, R817, R480
Waves – light & sound topics	R241, R233, R803, R724, R648, R198, R488, R968, R553, R709
EM induction & transformers	R717, R571, R247, R224, R510, R116
Space physics (separate only)	R935, R540, R872, R718, R789