Subject	Science	Year Group	10								
	P3	C3	83	C4	P4	B4	C5	P5	BS	C6	P7
Scheme title	Particle models of matter	Quantative chemistry	Moving and Changing Materials	Chemical changes	Atomic structure	Health Matters	Energy changes	Forces	Co-ordination and control	Rates of reaction	Electromognetism
Purpose of scheme	Students will be kom the behaviour of solids, liquides of porticies mech table of matters. Students elle develop on understrang of the links behaviour energyingedect heat and blatter has a link behaviour energyingedect heat and blatter has "spalls at dise experiments has merger behaviour and blatter has beauest experiments and the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the experiments and the space of the space of the space of the space of the experiments and the space of the space of the space of the space of the expectiments and the space of the space of the space of the space of the expectiments and the space of the space of the space of the space of the expectiments and the space of the expectiments and the space of the space o	Use conflictive analysis to information free formulate of compared as available formula resources and an analysis and conservational of resolution.	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The shuchure the different forms of enriched readings. And the enriched regulatory is to identify the formation of allow determines the half the of a cadacathe allow and the shuch the shuch the shuchure of an enriched allow and the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the allow and the shuchure of the shuchure of the shuchure of the	To understand the difference between communicable and non communicable diseases and how they are unsamittatic. Algue all the science abcet the different amonto as diseaged to default themselver. They will also also how the disease the science and diseases.	Describing the energy changes involved in chanical reactions.	Sinclusters and be learning about the vector-scatter distribution as in their control fractions of the source of all additional to the source of the source of the source of all additional to the source of the constraints of the source of the source of the source of the source of the constraints of the source of the source of the source of the source of the constraints of the source of the source of the source of the source of the constraints of the source of t	Pupil wern dool the encouse on encourse and encourse and the post is not har make responsibly or changes in the environment, homeodissis and reproduction.	Pupils will learn about the variables which can be up or slow down a chemical reaction.	Pupila will learn about magnetism, with spacific embrais an electromagnets. Sbudert self learn how electromagnets and the sentence of the second second second page will device an understanding of magnetic fields and Plenning's left hand rube.
Knowledge in sequenc	This hope builds on a fast understanding of the solution of indifier (champilary year 7 - indifier) of a pressure (physical year 8 - forces. Pupiti will also use the individual year for 1 - force 1 - years to apply that understanding the solution of the solution of the individual years of the solution of the solution with reference to specific heat.	The typic height with bidinaring experience and adulting with the termulaneous, adding on their secondary form of 1. Arguin the begin to build on this further increases in editionary increases in editionary increases in editionary	Pugita recep diffusion, consols and online transport from 82. They also balat an including in term Hay and a taplic human dispetition and unterter. Pugita data to be an entering and minimizer and a state of the second of the s	Rugh baid on their invokelys of chemical reactions and assigned alkels from your 2, using knowledge from C1 and C2 to explain some chemical reactions.	Pupils build upon their understanding of the atom from chemistry, C1. They will recall this structure of the atom, this hardy of the diselegation of the methods of the structure of the the definition of one and isotopes, Rodzion will be new threaded concept that student will not have previously identified. They will transfer that defense to the identomogenic postchma, and PS Space - triple only, with reference to nuclear fusion in stars and background radiation (triple only).	Raph ladd on booking a direct communication diverses, have used 3 - septong the effect of distance and linking of our investigation for the short histophication of the sector of the sector distance of the sector of the sector of Pupples and effort the term about a communication of the sector distance distance and the sector of the sector of excitors in high sign distance. Rughs will have be a con- ditionate distance and the sector of the sector of excitors in high sign distance. Rughs will have be a con- ditionate distance and the sector of the sector of excitors in high sign distance. Rughs will have be a con- tained of the sector of the sector of excitors in high sign distance. Rughs will have be a con- tained of the sector of the sector of excitors and the sector of the sector of the sector excitors and the sector of the sector of the sector of the excitors and the sector of the sector of the sector of excitors and the sector of the sector of the sector of excitors and the sector of the sector of the sector of excitors and the sector of the sector of the sector of excitors and the sector of the sector of the sector of excitors and the sector of the sector of the sector of excitors and the sector of the sector of the sector of the excitors and the sector of the sector of the sector of the excitors are been as the sector of the sector of the sector of the excitors are been as the sector of the sector of the sector of the excitors are been as the sector of the sector of the sector of the excitors are been as the sector of the sector of the sector of the excitors are been as the sector of the sector of the sector of the excitors are been as the sector of the sector of the sector of the sector of the excitors are been as the sector of the sec	Pagh ball or knowledge from we 11 Metro on know or larger of assort an end-terms or a watches excelors in the way being page, such those with completing way dronge adulation.	Pupils will have encountered fonce previously in year 7 and 8. In year 7, studartis will have konnel dataut pased, datance fran year 8, studartis will have konnel dataut pased, datance fran year 8, student all two kolecul at batance data data year 8, student all have kolecul at batance data data have a student all pase konnel data data have have been all back and batance have been all back and batance have been all back and back and back and back have been all back and back and back konsider all have been all back and back konsider all the forein Special back konsider all the forein Special back konsider and back and back konsider and the forein Special back konsider and the special back konsider konsi	Packs balls on those and provide of the source of the thirth include and then the reporter from the module of the the like and each or environment of the source of the the thermal source of the source of the the additional of the angles in the endocrine system, the characteristic of the angles in the endocrine system, the moment of the angles in the endocrine system, the relates that they have.	Pupils will firstly define rotes of reaction and learn about methods of measuring rotes of neaction before explaining factors which affect particular rates of reaction.	Pupile build upon KS3 torowkodge of magnetic and electromagnets from the electromagnets topics. Fugita will need to use their existing understanding of foreas from PS and electricity from P2 to students will need to develop on understanding of electric motors.
Skills	Interpretation of models, construction and analysis of graphs, calculation, rearranging equations, critical thinking, variables, practical skills, using correct measurements to record data.	Using apparatus to investigate mass losa, changing the subject of an equation.	Variables, using and manipulating equipment, writing a conclusion. Interpretating data + graphs, corrying out a heart dissection.	Produce a soluble salt, make order of magnitude calculations.	Interpreting graphs, calculationaluse of data, use of periodic tables, critical thinking, interpretation of models.	using and manipulating equipment, writing a canclusion. Interpretating data + graphs, making models to represent scientific concepts	Drawing and interpreting graphs, calculating temperature change.	Practical skills, recording measurements, variables, drawing and interpreting graphs, interpreting models and diagrams, calculations/vearranging equations, use of scales.	Variables, using and manipulating equipment, writing a conclusion. Interpretating data + graphs	Drawing and interpreting graphs, drawing a tangent on a graph, drawing conclusions from data, measuring the volume of a gas	Model interpretation, calculations, critical thinking.
Key words	States of matter, solid, liquid, gas, melting, freezing, condensation, evaporation, sublimation, internal energy, specific heat copacity, specific latent heat, density, pressure, particle model.	Relative formula mass, moles, concentration, theoretical yield	Diffusion, cancais, active transport, enzyme, substrate, active site, denatured, gas exchange, capillary, win, artery, coronary heart disease, plasma, platikieti, circulatory system.	Ore, reactivity, electrolysis, axidation, reduction, acid, alkali, neutralisation, soluble solt	Radiation, radioactivity, activity, half-life, alpha, beta, gamma, decay, irradiation, contomination, ion, isotope.	Pathogen, bacteria, vius, fungi, protist, malaria, disease, health, communicable, non communicable, ambodies, lymphocytes, phagocytasis, placeba, double blind that, cancer, benign and malignant, vaccination, herd immunity,	Exothermic, endothermic, energy level diagram, activation energy, overall energy change	Scalar, vector, contact, non-contact, gravity, resultant forces, work done, elastichy, displacement, velocity, distance-time relationship, velocity-time, acceleration, Newton's taxe, braking/stopping distance.	refex orc, stimulous, receptor, effector, response, neurone, hormone, endocrine system, pituitary gland, glucose, diabeles, contraception, reproduction, hormeostasis, IVF	Rate, tangents, collision theory, concentration, reversible reaction, equilibrium, closed system	Magnetism, permanent magnet, induaed magnet, electromagnet, solenaid, Flerning sleit hand rule, motor effect, magnetic flux density, magnetic field, canductor, force, current.
End point	Shuterts will be able to predict the ball-balance of effects, liquids and gauss based on the properties and shuters will be able to decrete the particle mode mode will be able to decrete the particle mode of mode the set of the to decrete the particle mode of able to be to calculate the space balance to any of an able to de to calculate the space balance to any able to de to calculate the space balance to any able to de to calculate the space balance to any able to de to calculate the space balance to any able to de to calculate the space balance to any able to de to calculate the space to a balance of the space to any able to any of any able to a balance to calculate the advect the and any explain the changes in a later it had propri-	Pupite any data to doctado solutida formator may mole- conclusionario esta de la balance espandicas. Pupita as abla to usa moles to calcular las fa insentical yield of a acticitar.	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Angel and out to be departs and the departs of t	Pupits can also to discribe and english some pupits barries of original and pupits the pupits of the pupit of the pupit of the discribes of the pupit of the pupit of the the difference is have in their grad is not accura- te and therein a barriers in the grad is not accura- te and the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the pupit of the solution of the pupit of the pupit of the pupit of the pupit of the solution of the pupit of the solution of the pupit of the solution of the pupit of the p	Pupili on oblin to estion the differences between oblin, but genome address of the differences between oblin, but genome address of the difference address Pupili and address the genome the text pupili and address the difference of the difference and help of the disk to bestable the difference and help of the dask to be the dask to be dask to be difference and the dask to be dask to be	Paph third is add to describe the difference in large common levels and the common level and assess. 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They should be able to be	Pupils one oble to measure act calculate the role of explort hocks a directing within hocks a directing table to explore and desorbe factors directing the position of equilibrium emblo reactions	Pupels should develop on understanding draggering and south register. 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Assessment Methods	Formative assessment and EOTT	Formative assessment and EOTT	Formative assessment, exam questions and EOTT.	Formative assessment and EOTT	Formative assessment and EOTT	Formative assessment, exam questions and EOTT.	Formative assessment and EOTT	Formative assessment, exam questions and EOTT.	Formative assessment, exam questions and EOTT.	Formative assessment and EOTT	Formative assessment and EOTT