**KS3 SCIENCE CURRICULUM PLAN**

Planning Grid Groups 1, 2 + 3 Science 2019-2020

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Autumn 1 | Autumn 2 | Spring 1 | Spring2 | Summer 1 | Summer 2 |
| Unit (s) | **Introduction: Experiments & Investigating Science**Safety in the lab**Forces & their effects**Using forcesBalancing forcesFloating & sinkingBending and stretchingFrictionWeightSpeed**Cells**MicroscopesLooking at cellsOrgansPollinationSeeds**Simple chemical reactions**New materialsRate of reactionBurningHistory of burning | **Energy resources**What is energyRunning out of energyEnergy from the SunFossil fuelsBurning fuelsRenewable energyGlobal warming**Reproduction**Having babiesFertilisationGestationBirthAdolescence**Heating & cooling**HeatingConductionConvectionRadiationCooling curves | **Patterns of reactivity**RustingReactivity ratePredicting reactionsUseful reactions**Fit and healthy**Health levelsSmokingAlcoholThe Heart**Light**Seeing lightMirrorsShadowsRefractionLensesColour | **Sound and hearing**Making soundsSound wavesMusic notesNoise**Inheritance and selection**VariationsGenesSelective breedingCloningDNA**Using chemistry**Burning fuelsExothermic & Endothermic reactionsMaking ironChanging mass | **Plants and photosynthesis**PhotosynthesisLeavesWater around a plantCarbon cyclePlant growthFertilisersEutrophicationFood pyramids**Pressure and moments**PressureWater pressureTurning forcesLevers**Atoms & elements (recap)**Chemical elementsSymbolsClassifying elementsPeriodic tableMaking compounds | **Gravity and space**Mass and weightGravitySolar systemUniverseRockets and satellitesFuture of space travel**Compounds & mixtures (recap)**CompoundsMixturesSeparating mixtures**Project based activities** –if time allows |