



Key Stage 3 Framework for Learning Year 8 2018-2019: Creative Foundations







Curriculum Area: Science



Year 8	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Knowledge	Forensics Separating Mixtures States of Matter Density Ph Neutralisation Acids and Alkalis Using Indicators	Health and Nutrition Diet. Diabetes. Homeostasis. Digestive system. Modelling the journey of food. Digestive system big write. Respiratory system Gas exchange Respiratory BIG write Effects of cannabis Impact of exercise Impact of exercise BIG write	Microbes <u>Disease</u> Bacterial disease Viral disease Fungal disease Bacterial numeracy Malaria <u>Transmission and defence</u> Spreading microbes Human defence system Defence <u>Vaccination</u> Vaccination MMR MMR persuasive writing Antibiotics and pain killers MRSA	Energy transfer Waves Wave equations Transverse and longitudinal waves Reflection Refraction Dispersion Sound Transfer of sound through matter Structure of the Ear	Genes and Evolution Variation The structure of DNA Genes, chromosomes and the nucleus Cloning in plants and animals Selective breeding Natural selection Evolution Extinction conservation	Motion and Forces Newton meters Hooke's Law Calculating speed Distance time graphs Speed and velocity – numeracy GPE and KE GPE and KE presentation Rollercoaster BIG WRITE
Syllabus	The year 7 and 8 curriculum has been developed from the KS3 national framework. All aspects that are not included in year 8, have been integrated into the KS4 curriculum taught during year 9. This can be found using the link below: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/335174/SECONDARY_national_curriculum_-_Science_220714.pdf					
Skills	Experimental and Investigative Skills Practical skills involving accuracy, equipment, observations Calculations using an equation Apply key terminology and data such as Repeats Accuracy Writing experimental methods	Presentation and RWCN skills Evaluating Communication Practical skills involving accuracy, equipment, observations Letter writing Persuasive writing Percentage components / RDA /	Command words Students will learn the command words explicitly and then be given opportunity to Identify which command words should be used and answer questions which use the specific command words. Describe Explain Compare Contrast Evaluate	Using and Interpreting Data. Students will learn how to use and apply key terminology and data such as Repeats Reliability Reproducibility Mean Error Accuracy Resolution	Control groups Sample Size Students will learn why control groups are used to reduce bias and increase validity of scientific testing. Students will learn the importance of sample size and the range of possibilities in that sample. e.g. age, diet, gender	Using and Interpreting Data. Students will learn how to use and apply key terminology and data such as Repeats Reliability Reproducibility Mean Error Accuracy Resolution
Assessments	Marking Point 1	Marking Point 1 <i>Diabetes evaluation</i>	Marking Point 1 <i>Bacterial numeracy booklet</i>	Marking Point 1 <i>Waves assessment</i>	Marking Point 1 <i>Assessment and examination questions</i>	Marking Point 1 <i>Speed and velocity numeracy task</i>



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	<p>Marking Point 2</p> <p>Marking Point 3</p>	<p>Marking Point 2</p> <p><i>Cultural Capital video on healthy eating and diet. Evaluating the diet of different groups</i></p> <p>Marking Point 3</p> <p>Progress test</p>	<p>Marking Point 2</p> <p><i>MMR persuasive writing task</i></p> <p>Marking Point 3</p> <p>MCT</p>	<p>Marking Point 2</p> <p><i>Light and sound assessment</i></p> <p>Marking Point 3</p> <p>Progress test</p>	<p><i>on evolution</i></p> <p>Marking Point 2</p> <p><i>Leaflet on extinction of elements</i></p> <p>Marking Point 3</p> <p>MCT</p>	<p>Marking Point 2</p> <p><i>Hooke's Law write up</i></p> <p>Marking Point 3</p> <p>Progress test</p>
<p>Cultural Enrichment</p>	<p>Prada-Willi syndrome</p> <p>Students should describe the causes of the syndrome and the difficulties and dangers of having and living with someone who has the condition</p>	<p>Prada-Willi syndrome</p> <p>Students should describe the causes of the syndrome and the difficulties and dangers of having and living with someone who has the condition</p>	<p>Pain Puss and Poison – PAIN</p> <p>Evaluate the development of medicines over time.</p> <p>Pupils will write about medical advances in pain control and surgery.</p>	<p>Pain Puss and Poison – PAIN</p> <p>Evaluate the development of medicines over time.</p> <p>Pupils will write about medical advances in pain control and surgery.</p>	<p>Jurassic Park</p> <p>Students should research evolution of dinosaurs. They should include information about fossil records, natural selection, predator / prey relationships and extinction.</p>	<p>Jurassic Park</p> <p>Students should research evolution of dinosaurs. They should include information about fossil records, natural selection, predator / prey relationships and extinction.</p>
<p>Character</p>	<p></p> <p>QoFS – Creativity & Curiosity</p> <p>Students will experiment with a variety of experiments during the Atoms and Elements topic and be encouraged to make predictions and show curiosity about their results. Whilst learning how to write a scientific report and during their homework task students will have an opportunity to think creatively.</p>	<p></p> <p>QoFS – Empathy</p> <p>Whilst planning and delivering group presentations students will be expected to show high levels of creativity and independence. Students will need to be motivated to revise for their "Progress test". Students will be given advice on how to revise and be encouraged to use Personal Learning Checklists to support their revision. Students will have an opportunity to create a meal plan for various celebrity profiles and find a creative solution to encouraging healthy eating in school.</p>	<p></p> <p>QoFS – Creativity & Curiosity</p> <p>Students will practise their understanding of key scientific skills and apply their knowledge and understanding of command words to exam style questions. This will be a key focus this half term as students are consolidating their application of scientific command words. Three assessment points through the term will enable students to be resilient when acting on their feedback by acknowledging which command words they need to gain further exam practice experience.</p>	<p></p> <p>QoFS – Responsibility & Reflection</p> <p>Students will study the structure of the ear and hearing, they will develop an appreciation of what it is like not to have perfect hearing and how their world would be affected.</p>	<p></p> <p>QoFS – Practice & Resiliency</p> <p>Students will be expected to show high levels of responsibility and independence whilst preparing for their "Progress Test". Students will be given advice on how to revise and be encouraged to use Personal Learning Checklists to support their revision. For their homework task students will be set an extended writing task based on the film Jurassic Park where students must ensure they take responsibility to include key aspects of their half term classroom learning and relate it to aspects in the film.</p>	<p></p> <p>QoFS – Motivation</p>



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