Curriculum Map

Djanogly City Academy

Science

Year		Spring 1	Spring 2	Summer 1	Summer 2
7	Y7 - Fundamentals in science: Scholars are introduced and develop fundamental ideas in matter, forces, energy and anatomy, applying these to more advanced concepts, reproduction and energy.	Biology - Human Anatomy Chemistry - Separating Mixtures Physics - Forces	Chemistry - Separating Mixtures Physics - Energy	Chemistry – Elements and Compounds Physics - Energy	Biology – Plant Anatomy Chemistry – Elements and Compounds
8	Y8 - Intermediate ideas in science: investigating how chemicals react. How body systems and plants are organised to support life and how interactions impact the fragile world around us. Explore how waves behave, and how they underpin how we communicate.	Chemistry – Chemical Reactions Physics - Waves	Biology – Photosynthesis and Respiration Chemistry – Atmosphere	Physics – Space Chemistry – Acids and Alkalis	Biology – Cells Chemistry – Chemical Changes
9	Y9 – GCSE Science journey Advancing ideas in science: Spiraled, cell biology and organisation, the particle model, atomic structure and how atoms bond, and how we represent energy with mathematical equations.	Chemistry – Atomic Structure	Physics - Energy	Biology - Organisation	Chemistry - Bonding

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10	Y10 - Advanced ideas in science: Spiraled concepts are revisited and advanced, forces, electricity, magnetism, chemical reactions, bioenergetics, inheritance and ecology. Additional ideas are developed, infection and response, homeostasis.	Triple: Biology - Homeostasis Chemistry – Quantitative Physics – Forces Trilogy: Biology – Chemistry – Physics –	Triple: Biology – Disease Chemistry – Quantitative Physics – Magnetism Trilogy: Biology – Chemistry – Physics –	Triple: Biology – Disease Chemistry – Quantitative Physics – Magnetism / Radioactivity Trilogy: Biology – Chemistry –	Triple: Biology – Disease Chemistry – Quantitative and rates of Reaction Physics – Radioactivity / Space Trilogy: Biology – Chemistry –
11	Y11 - Advanced ideas in science: Spiraled concepts are revisited and advanced reactions and waves. Additional ideas are developed at an advanced level in rates of reaction, chemical analysis and organic chemistry	Biology –Ecology Chemistry – Rates of Reaction Physics – Waves	Triple: Biology –Exam prep Chemistry – Organic Physics – Waves and Space Trilogy: Biology –Exam prep Chemistry – Analysis Physics – Magnetism	Triple: Biology –Exam prep Chemistry – Analysis Physics – Exam prep Trilogy: **Exam preparation**	**Exam preparation**