CP RIVERSIDE SCHOOL

SCIENCE CURRICULUM PLAN 2025/2026

Our goal is to cultivate and maintain students' interest about the world, enthuse students in scientific activity, and get them to comprehend how natural occurrences can be explained in a methodical manner. Every student should have equal access to a Science education that allows them to participate in informed decisions and take part in appropriate activities that benefit their own well-being, as well as the well-being of others and the environment.

To immerse children in real-life science situations, students in KS3 will explore each of the three scientific disciplines: Biology, Chemistry, and Physics under the common themes covered by all subjects. Cells, adaptations, organism relationships, and biological systems will be covered in the Biology units. In Chemistry, students will learn about particles, reactions, acids, and alkalis. In Physics, they will learn about space, energy and light and sound. They will learn how to use terminology, conduct meaningful experiments and get a deeper grasp of how science works during these topics to level up their understanding of how the world functions.

We offer the AQA GCSE Biology course to our KS4 cohort. Our learning focuses on the implementation of key 'islands of knowledge' for our pupils, enhancing key fundamental concepts found within the specification that can be learned and explored in isolation, as well as interlinking with other key concepts within the course structure. In this way our course delivery is accessible for pupils of all abilities and needs within our cohorts. Additionally we draw from the expertise of 'Hodder Education', the original exam specifications and the wider academy trust in order to tailor the sequencing and delivery of our courses. We also endeavour to expose any preconceptions or common misunderstandings so that they may be addressed. Students will also be asked to complete required practicals in order to help them better understand their learning concepts and embed them within the framework of 'working scientifically', which has the additional benefit of enhancing key life skills outlined in medium term plans for each subject.

	KS3	YEAR 10	YEAR 11
AUTUMN 1	Earth and Space Atoms and the periodic table Separating Mixtures	AQA BIOLOGY Cell Structure and Transport Cell Division Organisation and the Digestive System	AQA BIOLOGY Genetics and Evolution Adaptations, Interdependence and Competition
AUTUMN 2	Energy Acids and Metals	AQA BIOLOGY Organising Plants and Animals Communicable Disease	AQA BIOLOGY Organising an Ecosystem Biodiversity and Ecosystems
SPRING 1	Light and Sound Acids and Alkalis	AQA BIOLOGY Preventing and Treating Disease Non-Communicable Disease Photosynthesis	AQA BIOLOGY Revision: Paper 1
SPRING 2	Plant Biology Microorganisms and Disease	AQA BIOLOGY Respiration The Human Nervous System	AQA BIOLOGY Revision paper 2

SUMMER 1	Human Biology	AQA BIOLOGY Hormonal Coordination Homeostasis in Action	Repeat Required Practicals AQA GCSE BIOLOGY GAP ANALYSIS AND TARGETED REVISION
SUMMER 2	Ecology AQA BIOLOGY Cell Structure	AQA BIOLOGY Reproduction Variation and Evolution	