

Science Learning Journey

Problem Solving; Decision Making; Safety; Planning; Communication;


 Interpretation; Questioning; Confidence; Curiosity

Intent: At CRS, our aim is to provide a curriculum which is challenging, engaging and enjoyable, fostering a desire to learn. Our rigorous safety procedures and scientific methods provide an environment where the students feel comfortable to challenge themselves and stretch their skills, knowledge and confidence. Our science units of work match the National Curriculum students' key stage as far as possible and are taught in ways appropriate to the students' abilities. Where areas of knowledge and skills are identified as being weaker, material has been selected from earlier key stages to enable students to progress and demonstrate achievement.

Implementation: In KS3, students study Biology, Chemistry and Physics. They improve their scientific enquiry through investigation. From Y9, our students study OCR topics-biology topics include the human body, plants and the environment. In chemistry, topics include chemical reactions, elements mixtures and compounds and the Earth and atmosphere. In Physics topics include forces, electricity, magnetism and light. Students improve their scientific enquiry through investigation and exploration.

Impact: At CRS, students participate in all science lessons with excitement, wonder and awe. Students know how to work safely in the lab and are able to transfer these skills to other areas of the curriculum and to life beyond school. Students' progression, knowledge and skills in science are assessed using the school's CREATE system and Go4schools.


Food Factory B12



Fuels C9




Our Electricity Supply P7




Can Do Task Skills - Student improvements and amendments using the board criteria.

Coursework Draft 3 – Final student improvements if required.


Nuclear Power P6




Heavy Metals C8



My Genes B11




Year 11



Gasping for Breath B5

Cooking and Chemistry C7

Driving Along P10



Casualty B6

Are you overreacting C10



Fly me to the Moon P11



Extinction B10

CSI Plus C12

Final Frontiers P12

Coursework Draft 2 - Student improvements and amendments using the board marking criteria.

Coursework Draft 1 – Students complete the coursework using the board criteria.


bio fuel



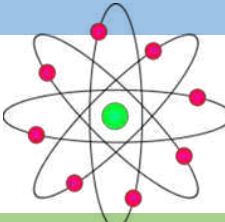
Control Systems B3

A Place for Everything and Everything in its place C3

Hot stuff P4




Year 10



You only have one life-look after it B7

Clean Air and Water C4

Medical rays P3



Body Wars B8

Sorting Out C6

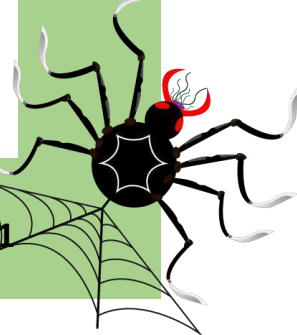
Attractive Forces P8



Creepy Crawlies B9

How fast, how slow C11

Pushes and Pulls P9




At YEAR 9, some students will begin an OCR qualification which is run over three years. Students can achieve a Level 1,2 or 3. (Bronze, Silver or Gold) The course will include short topic tests, practical skills and coursework.

Babies (Reproduction) B2

Acids and Alkalis C2


Full Spectrum P2



Dead or Alive (Cells) B1

Physical or Chemical Change C1

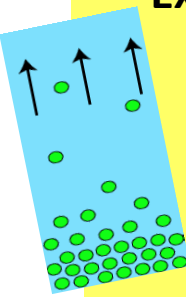
Getting the message P1




Year 9




Explaining Chemical Changes C4



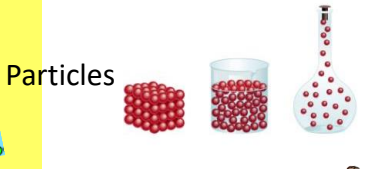
Exploring Contact and Non-Contact Forces P3



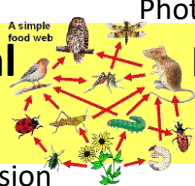
Magnetism and Electricity P4



Explaining Physical Changes C3




Looking at Plants and Ecosystems B4




Getting the Energy your Body Needs B3




Materials C1



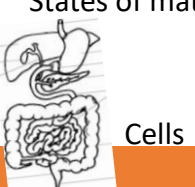
Forces and their Affects P1




Energy Transfers and Sounds P2



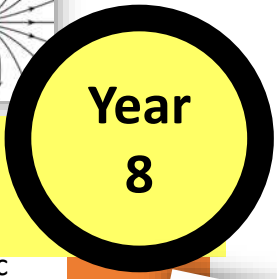
Eating, Drinking and Breathing B2



Living Things B1



Year 8



Exercise

Reproduction

Food Groups

Energy Requirements

Body Systems

Cells

Ecosystems

Food chains

Classification

Processes

Adaptions

Living/non-living