

Year 7 - 11

Head of Department: Mrs L Andrew

Email: ladade@chessington.kingston.sch.uk

Science

We Value:

Students who are excited, enthused and engaged with Science. We value those who are willing to ask questions and explore their learning through practical experiments. We value getting things wrong, and recognise that we can learn from this. We value individual effort, team challenges and collaboration between students and staff to generate a shared learning environment. We value memory techniques and the retention of crucial knowledge as the building blocks to developing a deep scientific understanding, which we can apply to the real world. We value those who are going to make a difference in our scientific future.

We offer these Opportunities:

We will give every student the chance to engage with a topic that they enjoy. We cover a range of key areas within Year 7, 8 and 9 that give students the best possible chances to develop their scientific understanding, to allow them to strive for the highest possible grades in Year 10, 11 and beyond. We provide the opportunity to raise issues and concerns close to their heart, and to investigate these through scientific methods. We link with a range of subjects to provide a broad and balanced curriculum that embeds learning from other areas. We provide opportunities for individual and collaborative work, and a practical skill set that is useful in science and transferable to other areas. We work with Kingston STEM and other STEM organisations to give students the opportunities to experience a wide range of science, technology, engineering and maths projects.

In **Year 7** we offer support, consolidation and extension lessons which cater for every individual to learn at their own pace, whilst making progress within the subject.

In **Year 8** we have an engaged and positive year group who are advancing their science knowledge and building solid foundations for approaching science GCSE.

In **Year 9** our students are buzzing about the opportunity to start their GCSE learning. They have embraced the three separate disciplines and are wrestling with some high level concepts. From Year 9, students are taught concepts which bridge the gap between KS3 and KS4 Science. This programme will be led by subject specialists to develop a deeper understanding of the individual disciplines.

In Lower School we run an integrated Science approach relating Biology, Chemistry and Physics content covering a range of scientific application and processes. We incorporate a series of the learning styles and methods that are required for success at Year 10 and 11 to support and ease the transition.

Year 7 – 11

Head of Department: Mrs L Andrew

Email: ladade@chessington.kingston.sch.uk

In **Year 10** our students have responded fantastically well to the challenge of three separate GCSEs in science and are making excellent progress. Our Trilogy cohort are enjoying the structure of the course.

We follow the AQA Science specification in GCSE Combined Science Trilogy (worth two GCSEs) or we offer Biology, Chemistry and Physics as separate subjects, for the appropriate students.

In **Year 11** after a positive Year 10, our Year 11s are well placed for their final GCSE year. They are taking responsibility for monitoring their own progress and setting challenging goals for their final exams. Our Year 11 are showing an incredibly mature approach to their learning.

Our Successes:

- We provide a range of courses that Science students can follow, which enables us to find opportunities for everyone to be successful.
- Our Science club is one of the best attended and best funded in the school
- Our Lower School programme is being shared across the Borough and beyond as an example of GREAT practice.
- Our tracking system from Year 7 to Year 11 is being recognised across the borough and beyond as an example of GREAT practice. It means we can identify exactly where your son or daughter is doing well, and where they need a little bit of help.
- We have had students achieve three grade 9's for triple science and students that achieved grades 9-8 for Combined Science.