



Longsands Academy

Science Faculty



Aims of our Science Teachers



- 1) To deliver the highest quality Science teaching to all of our students.
- 2) To enthuse our students with a lifelong interest in scientific matters and to have fun learning!
- 3) To ensure that our students fulfil their potential in examinations.

Science is a keen user of ICT and recently our dedicated Science ICT suite was updated with 31 new computers. We use the academy's VLE as a means of sharing our resources more effectively across the faculty and all teaching staff are given a laptop and iPad to facilitate the development and sharing of high quality resources.

All Science labs are equipped with interactive white boards and multimedia projectors. The Science faculty is well supported by the academy and each year we are usually able to fund the development of new initiatives to support learning & teaching within the Science faculty.



As a member of the Science team, you will be responsible for:

- 1) Teaching in all the Sciences at KS3 and sometimes at KS4, although you will mostly teach to your subject specialism from Year 10-13.
- 2) Helping to develop resources for your subject specialism.
- 3) Monitoring student progress and supporting interventions as appropriate.
- 4) Contributing to the development of schemes of learning.
- 5) Work with a Head of Subject to improve the delivery of your specialism and to complete relevant aspects of the faculty's action plan. We believe that every member of the Science team has something to offer and you will be fully supported by us so that you are able to make a full contribution to the life of our Science faculty.

Schemes of Learning

The Science department KS3 curriculum has been written by our own team to reflect a shorter two year course with a greater emphasis on the key investigative skills required for the new Science GCSEs. The GCSE courses start at the beginning of Year 9.

KS3 and KS4 are well resourced with a generous allocation of text books and multimedia resources designed to compliment and enhance their delivery.

At KS4 we currently offer AQA Separate Sciences, and AQA Combined Science (Trilogy).

A-level Teaching

There is considerable interest in the Sciences at A Level and we offer Biology, Chemistry, Physics and Applied Science (Level 3). It is likely that the newly appointed member of staff would have the opportunity to teach an A-level subject.

Student Setting

All pupils across key stage 3 and 4 are banded into academic sets which are regularly reviewed and refined. At Longsands we value every set and aim to meet or exceed the targets set for our Science learners.

Our Philosophy...

We believe that our learners should enjoy Science, find it rewarding and gain knowledge and understanding through independent learning, group work and practical investigation. The Science teachers, TAs & technician staff form a strong team. The ability of a newly appointed teacher to contribute to this is considered essential.

Accommodation

The Science Department is housed within two adjoining blocks linked by a Science prep area that consists of twelve labs, one dedicated ICT suite and two A-Level classrooms. The faculty also has its own work and staff room.



The Curriculum

Key Stage 3 students receive three hours of Science per week.

The separate and combined Science students have six hours of Science per week split between three subject specialists.

A-Level courses currently receive four hours per week with an additional one hour tutorial session per week staffed on a rota basis.

Science Department Staff

Alf Lesurf	Assistant Headteacher: Director of Science
Tom Smy	2 i/c Science, Head of Biology
Wendy West	Biology/Physics Teacher
Liz Murphy	Biology/Chemistry Teacher
Lizzie Sparrow	ITT & Student Teacher Mentor & Biology Teacher
Sara Winters	Biology Teacher
Clare Given	Biology Teacher
Alexis Ivett	Head of Chemistry
Roy Cooper	Chemistry Teacher
Ryan Kuefler	Physics Teacher
Peter Martin	Head of Physics
Sam Blake	ITT & Student Teacher Mentor & Physics Teacher
Linda Albone	Physics Teacher
Adrian Miller	Applied Science Co-ordinator and Science Teacher
Chris Armitage	Applied Science Teacher & Physics
Rachel Dowling	Senior Technician
Samantha Saberton	2 i/c Technician
Julia Bresler	Technician
Michael Redrup	Technician
Elena Villarta	Lead Science TA

Extra Curricular

We have a very popular after school STEM and CREST club for our Science learners and are now supporting students through bronze and silver CREST awards. Sixth formers have the opportunity to spend a day at Glaxo, visit



CERN, attend ERASMUS trips, conduct Biology field work and visit various places on Earth—this year it will be the Galapagos Islands.



Intervention, revision and mentoring sessions are regularly run across all key stages in order to support our Science learners.



Contact the Director of Science:

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