



Southam
College

Southam College Science Department

Head of Department - Mr J Eltringham



Hi there. My name is Jim Eltringham and I am the Head of Science at Southam College. It is my job to make sure that your Science learning experience at Southam is as enjoyable and successful as possible and I am looking forward to working with you over the coming years.

I've been at Southam for just over two weeks now, and I have to say that I am delighted with what I have seen so far.

The Science Department is a mixture of new staff and people who have worked here for many years and it is currently made up of 14 teachers, 4 technicians and a specialist teaching assistant. They make a great team with everybody pitching in and it already feels like we've always worked together.

Students at Southam have a great approach to their Science lessons, they turn up ready to learn and

approach it all with a mixture of professionalism and enjoyment. For all these reasons Southam really is a great place to learn Science.



Science Topic - P4

- A Van de Graaf generator collects electric charge on a metal dome.
- A person places their hands on the dome when it is uncharged.
- The dome is switched on and it and the person become charged.
- All the person's hairs gain the same charge.



Shockwaves in Science

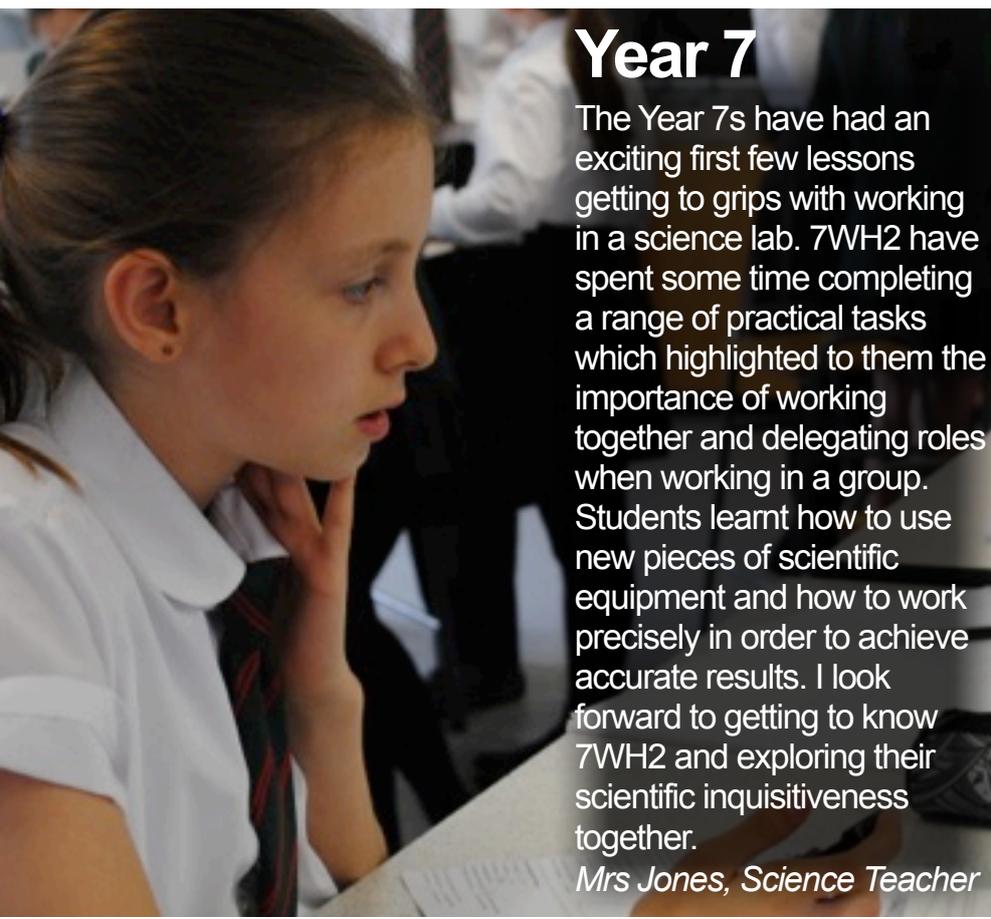
Year 11 student Ellie Parker was taking part in the Science Department's new hair product range this week. But instead of using traditional gels, waxes or sprays, Ellie opted for an alternative treatment.

By using a Van der Graaff generator Ellie collected

extra electrons, which collected in her hair. When this happened Ellie felt very **negative** about her new hairdo, as the electrons repelled each other and her hair stood on end! To remedy the solution Ellie had the choice of an appointment with the Science

Department's resident hairdresser or by earthing herself to remove the extra electrons. Ellie made the right choice by earthing herself to become **neutral**. Students described Ellie's hair as 'shocking', but Ellie is now feeling more **positive** about her hair!

Mr Etheridge, Science Teacher



Year 7

The Year 7s have had an exciting first few lessons getting to grips with working in a science lab. 7WH2 have spent some time completing a range of practical tasks which highlighted to them the importance of working together and delegating roles when working in a group. Students learnt how to use new pieces of scientific equipment and how to work precisely in order to achieve accurate results. I look forward to getting to know 7WH2 and exploring their scientific inquisitiveness together.

Mrs Jones, Science Teacher





All the students worked collaboratively with each group correctly identifying the different blood vessels, chambers and parts of the heart. Students were totally engrossed in their learning and it was very pleasing to hear them discussing their learning with such enthusiasm.

Mrs Onyekwe, Science Teacher

Year 9 Heart Dissection

Science group 9A2 demonstrated what excellent Biologists they are when they performed a heart dissection as part of their learning on the heart and heart disease. Each group performed a very good dissection, cutting through the major blood vessels of the heart to explore in detail the different parts of the heart.



KS3 Science Club

Last year Science Club was a lot of fun for KS3 students. Each Day 9 at lunchtime, students were involved in different activities such as making bath salts, snowflake crystals, rockets and larva lamps to name just a few.

There was a session on analysing fingerprints where students learned about the use of fingerprinting in forensics. Students also had the unique opportunity of exploring several experiments with dry ice. On one particular Science club activity students met Nao the Robot and explored the cross over between Science and ICT. Students always showed great enthusiasm for Science club activities, sometimes repeating them at home with family members. Most impressive of all, students demonstrated keen interest to understand the Science behind each activity.



Year 10 Science lesson



“I love Science and my favourite part of Science teaching is being able to share this with students. Here, I am feeding some of my snakes as part of a lesson on energy flow in ecosystems.”

Mr Eltringham, Head of Science

Science at Southam

Here at Southam we follow a two year Key Stage 3 course in Years 7 and 8, focussing on the skills and content required to build a firm foundation for GCSE and beyond whilst also fostering an enjoyment and appreciation of the subject.

In Year 9 we begin GCSE, covering the initial units in Biology, Chemistry and Physics. In this way we are able to match students to the

most appropriate courses in Year 10 and 11, as well as approach Key Stage 4 with sufficient time to develop a deep understanding of the subject by the end of Year 11.

Many students choose to continue with Science beyond GCSE, we offer A levels in Biology, Chemistry and Physics, and this year, for the first time, we are offering a Level 3 BTEC National in Applied Science.



Want to know more?

Southam College and the Science Department are committed to ensuring students achieve as highly as possible through quality, enjoyable learning experiences that provide

students with skills, understanding and memories that will stay with them long after they have left Southam College.

For more information you can visit the Science pages of the Southam College website and look out for our regular newsletters. If you have any further questions then please

contact any of the following staff at Southam College: -

Mr S White - Head of Key Stage 3 Science

Mr R Holt - Head of Key Stage 4 Science

Mrs N Khara - Head of Key Stage 5 Science

Mr J Eltringham - Head of Science

Mrs L Edmonds
Assistant Headteacher, Science