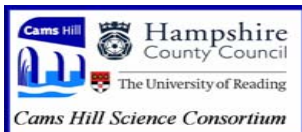


## The Cams Hill Science Consortium



The Cams Hill Science Consortium continues to actively involve over 30 teachers from different schools across three counties. Over the past 6 years we have co-

ordinated a programme of classroom based research projects targeted towards improving teaching and learning in Science across all age groups from Key Stage 1 through to Key Stage 5.

We regularly run teacher training at the Science Learning Centre at Southampton University. These are based upon cascading and sharing our highly successful "Levels Mountain" and "Thinking Frames" approaches. In addition we have been booked in 2008 to run similar teacher training courses via the Science Learning Centres in Bristol and London.



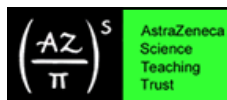
**Science**  
LEARNING CENTRES



The findings from some of our projects within the Consortium have enabled us to contribute three chapters towards a new

academic book "Science Education for Gifted Learners". This book has been compiled by Dr Keith Taber of the University of Cambridge and is currently being published by Routledge.

We were delighted in June when we heard that we had won a second grant from the **AstraZeneca Science Teaching Trust** to research new and innovative ways of inspiring gifted and talented Science students in primary and secondary schools. This work, due to start in January 2008, will involve designing and delivering inter-school Science Challenge events and supporting and developing science clubs at different schools.



## Presenting at the National Conference

This year we were very proud to have been invited to present two workshops at the National Science Conference organised by the Specialist Schools and Academies Trust and held at '@Bristol'.



We were able to showcase materials and resources produced by the Cams Hill Science Consortium and also disseminate the success that we have had working collaboratively with our four Science Specialist partner primary schools - Harrison, Northern, Uplands and Wicor.

## Developing a new teacher training website

Cams Hill staff and pupils are currently involved in developing a new science teacher training resource.



Following the success of our recent work with over 30 primary and secondary schools, we are delighted that our Cams Hill Science Consortium has recently won a contract from the **AstraZeneca Science Teaching Trust** to write a new national teacher training website.

When finished, this new website resource will offer primary and secondary teachers practical resources to help them enhance their Science lessons and promote thinking skills. The pictures show our teachers being interviewed and pupils conducting and explaining experiments for the video shoots.

On Monday 14 and Friday 25 May, Roswitha Cheshire of Vitafilms Ltd worked with the Science Department to video Science teachers, Mrs Braisher and several pupils from our 3 KS3 Science Clubs (Year 7 Science Club, Year 8 Science Challenge Network and Year 9 Animations Club) demonstrating examples of our '**Thinking Frames Approach**' to learning Science and our '**Levels Mountain**' resource. Later in June we arranged similar video shoots at Uplands and Harrison Primary Schools videoing KS2 lessons demonstrating the same approaches to teaching and learning.

Clips from these videos will be used on the website to form short downloads to help explain to other teachers how to use our ideas and resources in their schools.

## Contact Details

Should you wish to contact us for further details of our work or specific details of any of our projects, we would be delighted to hear from you.

Cams Hill School  
Shearwater Avenue  
Fareham  
Hampshire  
PO16 8AH  
Tel 01329 231641

E-mail: [office@camshill.com](mailto:office@camshill.com)



## Cams Hill School

### Specialist School Update No.4

July 2007



INVESTORS IN PEOPLE



The Lawn Tennis Association



Leading Edge  
Partnership Programme



SPORT  
ENGLAND  
ACTIVE SCHOOLS

At Cams Hill School we value all children as individuals with unique talents, skills and abilities. We are committed to supporting all children to do their best through academic, artistic and sporting achievements.

From 2005—2009 our Specialist Status will enable us to develop facilities and resources to enhance teaching and learning across our whole curriculum and that of our partner schools. We are working towards becoming a centre of excellence in Science and Mathematics education and to be able to disseminate best practice at a regional and national level.



## Yr 7 'It Takes Guts' Science Show

On Thursday 26 April, all **Year 7** pupils saw a show called 'It Takes Guts' presented by a team from the Science Museum in London.

The show followed the journey of food through the digestive system. There were endoscope images from inside the digestive organs. The team used sausages, sweet corn and chocolate cake to travel along their made up digestive process. They had plastic bowls, a sponge, sieve and polythene bags to represent the different processes and liquids to model the enzymes and stomach acid. It will prepare the Year 7 pupils very well for the 'Ghastly Guts' module next year. The show was very graphic and certainly memorable! The pupils found out what happens when you are sick, why we burp and what causes diarrhoea.



*'I thought the Science show was really good and a more interesting way to show us how food was used in our bodies. It was really cool to see the cameras going through people, but a bit disgusting in some parts!'* Jessica Hope 7C

*'We thought the Science show was brilliant.'* Jordan Duck and Ben Kissane 7C

## Supporting The NFF Family Days

One of our Science Specialist Community Partners are the Naval Families Federation based in Portsmouth ([www.nff.org.uk](http://www.nff.org.uk)). The NFF acts as a voice to support the families of those serving in the Royal Navy or the Royal Marines. We have been supporting them by providing them with training and resources to run fun Science children's workshops during the Navy's Families Day onboard HMS Ark Royal.

In the photo Sarah from the NFF tries out our travelling the world buzzer game.



## Yr 10 Science Ambassadors



This year has been a very active one for our Yr 10 Science Ambassadors; Katie Miller, Katie Rees, Emily Stoppard, Amy Maddison, Kathryn Norris, Talia Kear-Davies, Sophie Hodgson Eleanor O'Brien, Matt Langdon, Joe Purden, Stephen Berry, Bryony Watson, Rebecca Thompson, Sally Granger and Conor Higgs. They have been meeting regularly with Mrs Sampson and Mrs Braisher to design and deliver practical activities and workshops for our partner primary schools.

This term the Ambassadors have delivered "Science Alive" workshops to pupils from Yr 4 in Wicor Primary and Yr 3 in Northern Juniors. The workshops involved explaining the Science behind a circus of hands-on activities such as "Crazy Custard" and "Rainbow Fish".



The excitement and enthusiasm of the primary pupils has been infectious and we have certainly learnt as much from them as they have done from us.

## Silver Surfers Internet Workshop

Silver Surfer Week is an opportunity for older residents from our local community to attend free taster sessions on the Internet and is a yearly event run by Hampshire County Council.



This year, as part of our Specialist Community work, residents from our local community attended a session at Cams Hill School entitled "Introduction to the Internet". They were given the opportunity to send emails and search the Internet. For some of them this was their first experience of using the Internet and they were amazed at the wealth of information that can easily be accessed.

## Yr 8 Maths & Science Road Safety Day

On Tuesday 3 July, we held the first ever Year 8 Maths and Science Road Safety Day. There were a range of activities including: estimating and measuring vehicle speeds, calculating stopping distances, measuring reaction times with and without distractions and analysing and interpreting local accident data.

Pupils had the opportunity to see how a police speed camera works and to have a go at using one. There was also a Science Workshop where pupils investigated the effects of collisions which were done using melons attached to the front of shopping trolleys.



In addition, they had an opportunity to complete a science workshop investigating at the benefits of wearing a cycle helmet. This involved simulations designing their own protective helmets for hard boiled eggs!

## Yr 9 Maths Masterclasses

The annual Yr 9 Fareham and Gosport Maths Masterclasses were held at Southampton University on Wednesday 24 January. This event, organised by Mrs Barton, saw able pupils from nine local schools come together to experience Mathematics outside the curriculum.

The emphasis of the day was to challenge the pupils mathematically and encourage them to share their ideas with pupils from other schools. This year the topics were: The Geometry of the Dam Busters, Tremendous Triangle and Modular Arithmetic.



Jonathan Wan, Kristian Faulkner, Michael Falconer, Lucy Petter, Amy Finnegan, Leigh Watson, Joe Chisham and Catherine Marshall represented Cams Hill School. The day was enjoyed by staff and pupils alike, even though some complained that their brains were hurting by the end of the day!