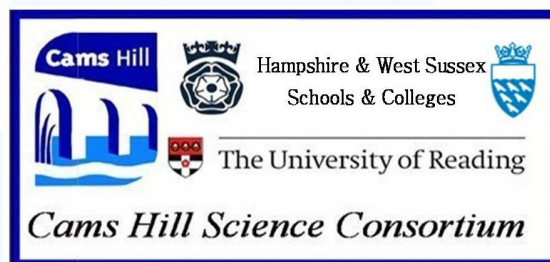


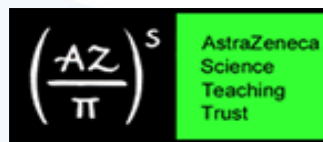
Raising attainment in KS4 Science



LEPP Achievement Show - 15 June 2010

Matthew Newberry

CHSC Primary Science Partnerships



Coordinators

Matthew Newberry
Pauline Patterson
Prof John Gilbert

Cams Hill Science Consortium
Hampshire Children's Services
The University of Reading

The Cams Hill / Uplands Primary Consortium

Rob Hatherley
Jane Braisher
Gill Sampson
Malcolm Price
Melanie Sharpe
Lucy Goddard
Jane Hoggarth
Julia Blencowe
Beth Brammall
Rose Duffy

Bedenham Primary School
Cams Hill School
Cams Hill School
Harrison Primary School
Harrison Primary School
Horndean Infant School
Oak Meadow Primary School
Oak Meadow Primary School
Uplands Primary School
Uplands Primary School

CHSC / The Hurst Primary Partnership

Laura Bedwell
Elaine Persin
Pauline Rees

Bramley Primary School
Tadley Primary School
The Hurst Community College

CHSC / Court Moor Primary Partnership

Alastair Douglas
James Chapman
Pam Meek
Gerry Gray
Nicola Carr
Kate Steven

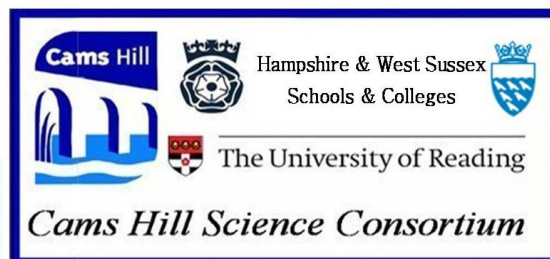
All Saints Junior School
All Saints Junior School
Church Crookham Junior School
Court Moor School
Dogmersfield Primary School
Elvetham Heath Primary School

CHSC / John Hanson Primary Partnership

Sue Carter
Pauline Parker
Jo Osmond
Steph Lawrence
Rachael Adams
Heather Ball

Balksbury Infant School
Balksbury Junior School
Clatford CE Primary School
Hatherden CE Primary School
John Hanson School
Shipton Bellinger Primary School

CHSC Secondary Science Partnerships



Coordinators

Matthew Newberry
Pauline Patterson
Prof John Gilbert

Cams Hill Science Consortium
Hampshire Children's Services
The University of Reading

South Hampshire Group

Jenni Grubb
Toby Evans
Jane Braisher
Jane Greenham
Michael Tanner
Alison Smith
Beverley Neilson
Richard Rajski
Nigel Brown
Hilary Davis

Brookfield Community School
Brune Park School
Cams Hill School
Cams Hill School
Henry Beaufort School
Henry Cort Community College
Neville Lovett Community School
Priestlands School
Warblington School
Warblington School

North Hampshire Group

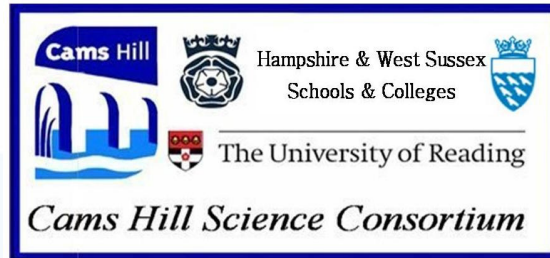
Mel Kirk
Gareth Moores
Jenna Mansbridge
Pauline Rees
Beth Mortimore
Dan Wyatt
Paul Wernham
Louise Willsmore

Court Moor School
Aldworth Science College
Aldworth Science College
John Hanson School
John Hanson School
Robert Mays School
The Hurst Community College
The Westgate School

West Sussex Group

Andrew Grevatt
Adam Robbins
Simon Perry
Ben Riley
Chris Hooker
Matt McKee
Wendy Sibley

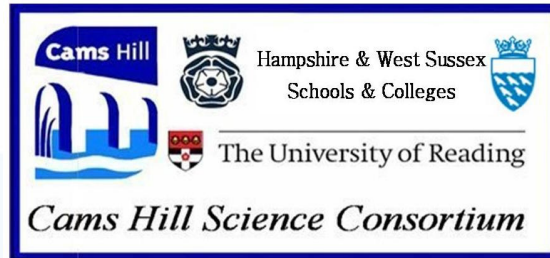
University of Sussex
Bognor Regis Community College
Downlands Community School
Oriel High School
Robertsbridge Community College
Shoreham Academy
West Sussex LA



Part 1

Developing a common understanding of approaches to Teaching & Learning

		Acquiring Scientific knowledge		Learning How Science Works			Applications & Implications
		Content	Activities	Investigations	Thinking Skills	Enquiry	
Type of learning <i>(What the pupils do)</i>							
	Type of teaching <i>(What the teacher does)</i>						



Part 2

Improving planning through Curriculum Mapping

1 – Identifying How Science Works

‘Hooks’

2 – Mapping Key Concepts

AQA

Biology

Chemistry

Physics

Edexcel

Biology

Chemistry

Physics

3 – Pupil progress sheets

example

Triple Science - Triple Science - Search - Internet Explorer provided by Dell

http://www.triplescience.org.uk/search/results.aspx?SearchString=cams+hill

Home News Contacts Links Networks FAQs Publications e-Learning

triple science
support programme



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<http://www.triplescience.org.uk/search/Resource-32166.aspx>  Downloadable file

 [Cams Hill Collaborative Partnership Case Study](#)
Cams Hill Collaborative Partnership Case Study - part 1Page 1 of 5 Triple Science Support Programme: collaborative partnerships Partnership leader name Matthew Newberry, Curriculum Project Manager, Cams Hill
<http://www.triplescience.org.uk/search/Resource-32167.aspx>  Downloadable file

 [Cams Hill Collaborative Partnership Study Appendix A](#)
Cams Hill Additional sheets for the collabaorative partnership study
<http://www.triplescience.org.uk/search/Resource-32168.aspx>  Downloadable file

 [Cams Hill Collaborative Partnerships Case Study Appendix B](#)
Additional sheets for the Cams Hill collaborative partnerships case study
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 [Cams Hill Collaborative Partnership Case Study](#)
This project involved 13 schools, spread across hamshire and West Sussex

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Cams Hill Science Consortium SCIENCE PATHWAYS for Year 7

Matthew Newberry, Andrew Grevatt
& Professor John Gilbert

WHAT? **HOW?** **WHY?**

Interdependence of **Key Ideas**

4 Describe facts using vocabulary

5 Use **key ideas** to explain familiar situations

6 Apply models to explain unfamiliar situations

7 Link models and justify explanations with evidence

8 Understand how evidence causes models to evolve over time

Cams Hill Levels Mountain

- A vision of progression through the new KS3 curriculum
- A Scheme of Work planning tool, based on PowerPoints
- Practical guidance on levelling and teacher assessment
- Uses the Cams Hill Levels Mountain and Thinking Frame Approach

Badger Publishing

Cams Hill Science Consortium SCIENCE PATHWAYS for Year 8

Matthew Newberry, Andrew Grevatt
& Professor John Gilbert

WHAT? **HOW?** **WHY?**

Interdependence of **Key Ideas**

4 Describe facts using vocabulary

5 Use **key ideas** to explain familiar situations

6 Apply models to explain unfamiliar situations

7 Link models and justify explanations with evidence

8 Understand how evidence causes models to evolve over time

Cams Hill Levels Mountain

- A vision of progression through the new KS3 curriculum
- A Scheme of Work planning tool, based on PowerPoints
- Practical guidance on levelling and teacher assessment
- Uses the Cams Hill Levels Mountain and Thinking Frame Approach

Badger Publishing

Cams Hill Science Consortium SCIENCE PATHWAYS for Year 9

Matthew Newberry, Andrew Grevatt
& Professor John Gilbert

WHAT? **HOW?** **WHY?**

Interdependence of **Key Ideas**

4 Describe facts using vocabulary

5 Use **key ideas** to explain familiar situations

6 Apply models to explain unfamiliar situations

7 Link models and justify explanations with evidence

8 Understand how evidence causes models to evolve over time

Cams Hill Levels Mountain

- A vision of progression through the new KS3 curriculum
- A Scheme of Work planning tool, based on PowerPoints
- Practical guidance on levelling and teacher assessment
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Progression in KS3

Our CHSC Science Pathways



Home

Thinking Frames

Levels Mountain

Science Pathways

Action Research

Consultancy



The Thinking Frames Approach, Levels Mountain and Science Pathways have been developed by the teachers involved in the Cams Hill Science Consortium working in partnership.

The CHSC was first established in 2001 as a classroom-based action research project between science teachers at six secondary schools across Hampshire and was initially funded by Cams Hill School's Leading Edge Status. Over the years we have been extremely fortunate in securing additional sponsorship and funding from a variety of sources to enable a variety of specific action research projects. We are very grateful to; Gatsby TEP, AstraZeneca Science Teaching Trust, Cams Hill Leading Edge Partnerships, Uplands Primary School, Court Moor School and John Hanson Community College for their support for our work over recent years.

Currently the CHSC consists of a network of six different 'Research Partnerships' involving teachers from a total of thirty five different primary and secondary schools across the South East. Co-ordinated by Matthew Newberry and Prof. John Gilbert the partnerships work in collaboration with Science Advisors from Hampshire and West Sussex.



Primary Dissemination Conference

For full details and booking forms please follow this link



The Y3-4 Levels Mountain

Recent Publications

Click on the image below to go to our Thinking Frames package published on the AZteachscience website.

How to form your own scientific explanation

There are 5 key sections to the Thinking Frames Approach; Setting the Question, Brainwave, See, Think/Sequence, Paragraph.



Click on the images below to go the Badger Publishing website for details of our new KS3 CHSC Science Pathways.

