



# home-link

N E W S L E T T E R

NOVEMBER 2011



## Headteacher's Hello

Four years and ten months after the last Ofsted – the inspectors visited again on the 13th and 14th October and by now many of you will have read the fabulous report.

The school was graded “Outstanding” overall and “Outstanding” in every one of the 31 categories that make up the report. This is very likely to place our school as one of the very best secondary schools in England.

Last week Ofsted published their annual report for 2010/11 and, although we were not inspected in this time-frame, national outcomes are similar year on year. Out of the 859 secondary schools inspected last year only two schools achieved an “Outstanding” in every category rating. We await the 2011/12 report to confirm our position as one of the top 1% of secondary schools in England.

This Ofsted report endorsed the hard work and achievements of the staff and students. In a verbal feedback the Lead Inspector stated that “the ... standards achieved by St Clement Danes represents a huge ongoing professional and personal commitment to the education of young people”. Although we cannot claim to be perfect at all times we can say with confidence that the school is an outstanding environment in which to learn.

I am very proud of all that the students, staff and governors have achieved and I thank you, the parents, for your ongoing support.

## Commemoration

On Friday 25th November the school celebrated its annual Commemoration Services, both at St Clement Danes Church, London for Years 7, 8, 11 and Sixth Form, and at school for Years 9 and 10. Both services were uplifting. The more informal student led service at school was enjoyed by staff, students and parents alike. The formal London service was a showcase of ceremony and music. Every student in Year 7 was a member of the choir and the renditions of “The Armed Man” (Karl Jenkins) and “I was Glad when they said unto me” (Parry), the latter being a homage to the Royal Wedding, were breath taking. The adult choir and orchestra created a spine tingling performance of The Lord is my Shepherd (Howard Goodall). The orchestra were magnificent and the Mayor of Westminster was effusive in her praise for the music, students and the atmosphere of our Commemoration Service.

As always the school contributed vocally and enthusiastically to the hymns, especially our own school hymn “The Anchor is our Emblem”.

Thank you to all who made the event run so smoothly – and especially thanks to courteous Sixth Form ushers and the music staff – Mr Marks, Miss Stevens and Miss Bennett.

## Sporting Bursaries

The Trustees of St Clement Danes Charitable Foundation allocate a fund to support the outstanding sports students within the school. The fund assists with the costs incurred by performing at an elite level. The Bursary can help pay for specialist equipment, clothing, travel expenses, affiliations, competition entry, club membership, coaching costs and medical support.

In order to be considered for this award we ask that students must be at least a county level performer in at least one sport or at district level in more than one sport. In the application please indicate the costs incurred by the student's current and future commitments, outlining how the funding will be used. To assist with our decision please also indicate the student's achievements in the past 12 months.

The applications will be considered by Mrs Clarkson, MBE, a Trustee of the Foundation, Dr Valentine, as well as Mr Birkett and Mrs Edwards from the PE Faculty.

If you wish to be considered please submit your letter of application to Mrs Venice Kyte, Headteacher's PA, by Friday 16th December 2011. Successful applicants will be informed in the New Year.

Josephine Valentine

Headteacher

## Forthcoming Events in 2012

Thu 5 January	School re-opens, 8.40am
Tue 10 January	Public exam modules start
Wed 11 January	Year 12 Parents' Consultation Evening, 5 – 8pm
Thu 12 January	Year 10 GCSE Biology exam
Tue 17 January	Year 11 Parents' Consultation Evening, 5 – 8pm
Wed 18 January	Year 10 GCSE Chemistry exam
	Year 11 Art Trip
	Year 12 Higher Education Evening, 7.00pm
Mon 23 January	Year 9 German Theatre in Drama Hall
	Year 11 GCSE History Unit 2a exam
Tue 24 January	Year 11 GCSE Biology exam
Wed 25 January	Year 7 Rugby Tournament
Thu 26 January	Year 11 GCSE Chemistry exam
	<b>Year 9 Parents' Consultation Evening, 5pm</b>
Fri 27 January	Year 12 French Work Exp. Outbound (ends 4/2/12)
Mon 30 January	Year 11 BCSE Geography Unit 3 exam (am)
	Year 11 GCSE Physics exam (pm)

\* **bold = changes to published calendar.**

Further information can be found on the school's website.

# MATHS UPDATE

My dad is an editor and edits VT (video tape) packages. The project my dad is currently working on means he must edit VT's that last no longer than 4 minutes. The VT's are split into 3 parts and can be any duration eg, 2 minutes, 1 minute 30 seconds. If there were 90 minutes of footage he would cut it down into 4 minutes by selecting the best bits. Video and film use Time Code which gives every frame an individual number. Time codes uses hours, minutes, seconds and frames. There are 25 frames in a second, 1500 frames in a minute and 90,000 frames in an hour.

Speaking to my dad about using maths in his job makes me realise we use maths in all sorts of different ways. I hope I use it in my career when I grow up!



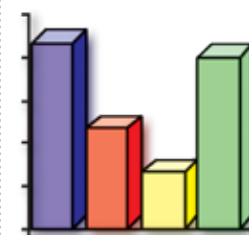
My dad is a process engineer and works in design for the factories that use oil and gas. Dad tells me maths is very important part of his job as it's an essential part of engineering. If engineering didn't use maths, it would all be trial and error and would take much longer to work things out.

Dad does unit conversions where he collects data from different place units and converts them into units they can use. He checks the safety of the gas and oil containers using probability, they have to change the design if there's a probability of anything going wrong.

Dad also uses geometry to measure the volume and surface area of complex-shaped vessels.

My mum works in a tyre business and I asked her when she uses maths at work. Mum said she has to work out the prices and VAT on all the products. You have to take the VAT into consideration as it will affect the price you have to charge for the tyre.

I started to realise that using maths in a job wasn't all that easy and that you have to use many different formulas. Mum said she uses addition, subtraction, multiplication, division and percentages all the time. She uses bar graphs to make it easier to understand sales figures rather than have to read through lots of words and sums. Mum uses a computer and a calculator to do most of the work but she needs to check the work herself just to make sure there are no mistakes.



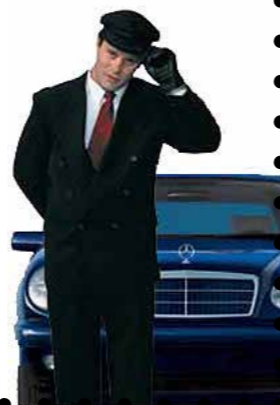
Mad Science is a company my parents run and they use maths all the time in their business. Calculating salary costs is one of the things they need to do correctly.

They take the hourly wage of each person working for them and multiply it by the days and months of a year that they work. Supplies are a cost they need to build in as well, they need to buy lab coats and conical flasks for the Science supplies. This comes out of the profits of the company.

My parents also use maths to calculate the profit they make from all the parties, workshops and science clubs after taking off all the other costs including VAT, salaries and supplies.



- My mum works at Warner Bros Leavesdon Film Studios and I asked her how she uses maths in her everyday work life.
- Mum explained that when organising an event she has a budget that she has to stick to in order to ensure that the company's profits are looked after.
- There are many things that mum has to pay for in the budget in order to make the event a success for the studio. These would include venue hire, advertising costs, private chauffeurs, make up artists, filming and food and drink to name a few. Mum needs to budget wisely to ensure maximum profits.



My dad owns a restaurant and uses maths in his job a lot.

He calculates the wages for the staff that are paid in the restaurant. He multiplies the hourly rate by the amount of hours they worked each week. The government take away the national insurance money which is

12% of their total earnings so my dad has to work out this as well.

This is an example: 36 hours x £8 = £288

12 divided by 100 = £34.56 (national insurance)

Wages = £288 - £34.56 = 253.44 in total.

My dad also works out the VAT for each product he sells which is currently 20%. If a pizza is sold for £8, the VAT is not 20% of £8 but in fact £8 divided by 1.2 to get the price before VAT (£6.66) and then multiply this by 20% to find the VAT = £1.33.

To work it all out is very complicated!

# MATHS UPDATE

My mum is a physiotherapist and specialises in treating hands. She uses maths every day at work. One of her jobs is to measure joints on an injured hand with a goniometer to see how it differs from the uninjured hand. Our writing hand is dominant and has more muscle and is less flexible than the other hand. This means the joints would have different measurements.

Mum also makes hand splints and has to measure patients hands and the thermoplastic material to make sure she uses the correct amount as it's expensive.

An isokinetic machine is used to measure the strength of a patients forearm muscles.

She uses graphs to compare wrist and elbow strength on each arm when the patient is nearly ready to return to sporting activities. The graphs will tell my mum when the patient is ready to be discharged.



My parent is a landlord and owns several houses which house several tenants.

Each week all the tenants have to pay the correct amount of money so they can keep living there. When everyone has paid the landlord, my parents have to calculate the amount of tenants per house to see if everyone has paid the correct amount.

My parents have to collect the right amount of rent from all the tenants in order for them to pay important bills and council tax so the house can be looked after properly. If the money isn't calculated correctly then there might not be enough money to pay other people to do important jobs around the house.

It is very important to make sure the rent money is allied up correctly for each individual tenant and that the all pay the same amount so it's fairer.



$$P_{RMA}(\%) = 100 \times \sqrt{\frac{S_{RMA}^2}{2}} \div C$$

My dad works in insurance and uses maths every day at work. Dad uses probability to calculate the

chance of a claim occurring, complex formulas to identify the maximum, minimum and average claims amounts. Then the cost of administration, sales commission and desired profit has to be built into everything.

To save time, he has some pre-calculated examples and he will interpolate between points in order to quote each individual person the right amount. Dad uses primary mathematical formulas for mortgage rate insurance policies in order to calculate whether a claim is due and if so, how much his company should pay.

Dad performs statistical analysis on customer databases so that he can improve the business. There are many different areas that he looks at to get these statistics correct.



My dad is a fire fighter and I asked him about some of the ways he uses maths in his job.

Dad said although it is a physical job they use maths routinely in the course of their work. On a strategic command level, maths is used to calculate response times and work out what assets are available. On an operational level, fire

fighters do calculations related to volume, weight, force, pump pressure, flow rate and hose friction loss. Dad works with fractions, percentages, ratios and angles and also needs to know how to convert units of measure to know how much water he will be delivering.

Dad needs basic formulas to determine the correct placement of a ladder for a safe climbing angle when it's been extended. Also maths is needed to calculate the variation in pump pressure to overcome gravity in a multistory building.

When fire fighters enter a building they need to calculate their 'turn around time' which is the point that they must start to make their way back outside otherwise they will not have enough air in their breathing apparatus to survive. Air consumption is based on rate of breathing for individuals and we always build in a 10 minute safety time called 'the time of whistle'. Dad uses area and volume calculations to establish scales of incidents, map safety and exclusion zones for accidents.

I interviewed my mum who uses maths a lot in her life especially when she goes shopping and when cooking.

When she is shopping, mum always looks out for the best deals. For example if one 5kg bag potatoes costs £4.50 but one small 2.5kg bag costs £2 then she would buy two smaller bags as it would cost £4 and save 50p.

When mum does the cooking she must weigh out all the ingredients to the correct amount, especially when following a recipe.

When choosing a SIM card for a mobile phone, mum searches through the best deals. If one of us uses 100 texts a week then she will put them on 500 texts a month at the best possible price.



My dad is a musician and plays the violin. One of his jobs he does is working on soundtracks for TV and movies.

Dad uses maths in his work for when he is reading music. Each note has a value and he needs to know this value to keep the music moving. He also uses maths to work out rhythm which is important to show the style of the music. Counting bars and rests are also important so he knows where to start and stop.



Away from music, dad also uses maths to calculate his payments and VAT.



553  
students  
taking part x £10  
Total £5,530  
loaned out



## TALENTED FUNDRAISERS SET THEIR SIGHTS HIGH

Fundraising for Perform 150 is well underway with over 550 students having signed up to The Talents programme. What this means is that £5,530 has now been distributed to St Clement Danes Students who are coming up with ingenious ways to use their talents to increase their initial loan of £10.

On Sunday, November 27th around 40 groups of enterprising students secured stalls in The Barbirolli Hall at the PA Craft Fair and sold things that they had made with their £10 investment. Stalls offered marmalades, cushions, cakes, homemade lemonade, jewellery, soaps, nail painting, pancakes and much more. Aside from the Craft Fair, individual students are also using their talents to make more money on the initial £10.

Max Cadogan in 7B, borrowed £10 from his mum to buy a puncture kit. Paid his mum back with the £10 loan, repaired his punctured tyre and went on to do a sponsored cycle ride and managed to raise in one go, £180! All of this was done within a few days of getting his £10. Max is currently considering how to re-invest some of these well-earned pounds to make even more money. Well done and thank you to Max and all the other students who are making a great effort to raise as much money as possible for Perform 150.

The first collection day of any monies raised is December 12th. On this day, students can bring in the money that they have raised (but remember to keep some back to help further investments) and those who have raised the most will be rewarded. More information about how this collection day will work will be sent out via Parent Mail next week. Early in 2012, we will arrange selected days in school, to give each year group an opportunity to bring their product/service into school in order to raise money. Students will be informed of these days in advance. So an enormous thank you and well done so far, keep the momentum and ideas going and don't forget the iPad which is up for grabs for the highest amount raised!



On Monday 5th December 'Teddies' will be launched at school! You will be able to purchase a fantastic limited edition St. Clement Danes 150th Teddy and enter the exciting 'Teddy Competition' where you could be in with a chance to win an iPad!! More details to follow – watch this space....



ONLY  
£15

## Parents' Association BULLETIN

The PA would like to extend a huge thank you to everyone who helped at the Craft Fair. The list is endless, but... Thank you to Louise Bamford and her team for running the cafe. Thank you to everyone who responded to our plea for cakes; the cake stall was packed full and everything looked beautiful and appetising. Thanks to everyone roped in on the barbeque, helping on the various rotas, generously donating tombola items and, of course, selling and purchasing raffle tickets. Thanks also to everyone involved in the promotional side of the Fair. We set up and cleared up in record time due to the very high levels of support and this was very gratefully received after everyone had worked so hard. Importantly, we accommodated eighty students with Talents Tables, turning tables around every hour on the hour and giving the students the chance to display and sell their wares. Having the Talent Tables certainly encouraged more students to attend which was welcome and gave the occasion a youthful buzz. Dr Valentine and her team also ran a Teddy Table launching the new Teddy scheme for Perform 150.

Congratulations to the i-pad winner Mr Chris Deal, dad of Clare Deal in 11 Dane.

**Parent Association Meeting:** Our next meeting will be on Tuesday 6th December at 7.30pm. We usually meet in a classroom off the main visitor entrance. As usual, all welcome.

**PA Subscription Prize Draw:** November's winner is Fiona Cumming who has won £148.75. Congratulations! If you would like to subscribe to our Prize Draw please contact Faye Bran at the following e-mail address [scdpa@hotmail.co.uk](mailto:scdpa@hotmail.co.uk)

## Work Shadowing Thanks

Many thanks to the following Year 9 students who took part in a recent Work Shadowing assembly: Alissa Bamford 9S, Rebecca Simkin 9C, Ellen Marandola 9E and Victoria Leeman 9L.

## iPhone App Award

Congratulations to Ella Walton in 10D who won a Headteacher's Commendation for her work on the iPhone App competition. Ella's App pitched her idea into the perfect group of people - school parents!

## MFL Trip to Rome, Italy

From the 22nd – 25th October, 20 lucky students were given the opportunity to go to Rome for a few days. We went to all sorts of places – the Colosseum, the Vatican, the Sistine Chapel, the Trevi Fountain, the Pantheon, the Spanish Steps, Villa Borghese, the ancient Forums... it was absolutely incredible, and I would definitely go again. Even though the flight was long, I think that it was worth it, just to see the amazing sights of the ancient city of Rome. I would absolutely recommend it to Year 10s next year because it is so inspirational. The trip was ABSOLUTELY HILARIOUS! but my ultimate favourite place was the Trevi fountain and we loved having the freedom to order our own food in Italian. The trip helped increase our confidence in speaking and expressing ourselves in this beautiful language.

*Molly Jones 10A*



## Past Student Achievement

We are pleased to hear of a past student of St Clement Danes who has made remarkable progress with his music since he left.

There is a famous group known as the Kathleen Ferrier Society (in memory of the famous singer) and they award two prizes to young singers every year. The previous winners list includes many famous British singers in the last 60 years.

Tom Isherwood was picked to represent the Royal Northern College of Music alongside another student in his year, and competed against 14 students from all the other UK Conservatoires. After a long day, which included two rounds of singing for a panel of esteemed judges he won and became the first student from RNCM to ever win the award (and a substantial bursary).

If you want to know more about the award it can be found at [www.kathleenferrier.org.uk/kfs.nsf/pages/bursary](http://www.kathleenferrier.org.uk/kfs.nsf/pages/bursary)

## Relive the Love Fashion Catwalk Show

The Art Faculty would be very grateful for donations of clothes rails or clothes horses to assist our Art Fashion Show on Monday 19th December.

Please come along and show your support to what promises to be a fantastic evening. The students have worked really hard to make the show a success. Tickets are on sale outside the LRC at lunchtimes.

*Mrs D Reid*

*Head of Art*

## Exams Office Information

Students in years 10, 11,12 and 13 who are taking modules in January 2012 have already received a statement of entry in school.

These run from 10 Jan to 2 February 2012.

Detailed timetables will be posted home by 9 December.

## ADVANCE NOTICE

The Summer 2012 public exam series runs from 14 May to 26 June ( A /AS levels) and 27 June ( GCSE).

## Year 10 Work Experience

### 9th to 13th July 2012

All Year 10 students have been given a pack of information concerning arrangements for Work Experience next year. The deadline for the return of the yellow parental consent form was 30th November. All blue own placement forms must be returned by 27th January. Any blue forms that have already been completed by the employer can be returned to Mrs Ritchie or Mrs Payne.

*Mrs C Payne*

*CEIAG Coordinator*

## New Books in the LRC

The LRC has purchased a large number of popular titles for both the fiction and non-fiction sections of the library. We have included titles by old favourites such as Darren Shan and Louis Sachar and introduced new authors such as Sita Brahmachari, whose latest novel 'Artichoke Hearts' won the Watersone's Children's Book Prize.

Along with a selection of 2012 annuals, the Guinness Book of Records and non-fiction titles such as Earth Matters we hope to have something for everyone! A full list of the new titles is available in the LRC and the English Department.

## Online Reference Resources

The LRC – Available online! In order to update our reference and non-fiction sections, the LRC together with the English and Humanities Departments have recently subscribed to two online reference resources. 'The Literary Reference Centre' and 'The History Study Centre' provide access to thousand's of full texts, articles, reviews and images and cover a wide range of curriculum-related topics for Key Stage 4 and 6th form. They are easily accessible via FROG both at school and at home and we hope that students will find them useful for both homework and extended projects. Why not take a look at them yourselves via Frog.

*Mrs F Hirst & Mrs J Gustafsson*

*Librarians*