

## Summary of the Brighton & Hove Maths Citywide focus - August 2013

### Background

Analysis of individual schools data and shows that across the city progress in maths is a major issue. Whilst progress from KS2 to KS4 in English is 'significantly above' the same measure in maths is 'significantly below' and is 'significantly below' for all groups of pupils

Schools have been working on this issue for some years and there is evidence of improving standards in maths, however it was felt that this would be best addressed with a city wide maths focus.

A steering group of headteachers and maths specialists, representatives from the Universities, our link HMI and officers from the LA has formed and met to propose a plan of action for this project. The LA has allocated £150k funding for it and the project will be overseen by the Learning Partnership

### Overarching Aims (to be judged by 2014 outcomes)

1. All students will make expected or better progress.
2. There will be a high profile for maths in the city and Brighton and Hove will be known as a beacon authority for continued professional learning and collaboration in Maths education.
3. Leaders at all levels and across all phases will be confident and competent in leading effective Maths practice.
4. All teachers will be able to access Continuing Professional Development (CPD) matched to their stage to ensure good or better maths teaching
5. Bridging the gaps between different phases of education will ensure continued progress in maths throughout the journey of education
6. Families will be engaged in their child/ren's maths education
7. Maths will be seen as valuable and an exciting subject

These aims will be developed through three strands:

- Developing Leadership of Maths,
- Improving Teaching and Learning of Maths
- Engaging Families and Communities with Maths.

We also aim for the academic year 2013 – 2014 to be the 'Year of Maths'

There will be several events that all schools and colleges in the city will be invited to join  
Eg: NSPCC Number Day on 3 December, My Money Week – PFEG event for schools (Week in June).

### Capacity

There are a number of successful groups / projects around the city. We aim to join these up, use them as the basis for further development and growth and through secondment from a successful FE colleague and University Staff, grow more capacity in schools.

We have:

- 15 primary teachers who have been through or are on the MaST (Mathematics Specialist Teacher) Programme
- A group of subject Facilitators from the secondary schools partnership who support the maths departments and organise Joint Practice Development Days
- The Teaching School Alliance
- Primary Consultant (Every Child Counts), and Numbers Count Teacher Leader
- Numbers Counts and ECC teachers

- Good practice from small scale projects that have been going on across the city
- Support from Link HMI

### Communication and Celebration

We will work with the communication team at Brighton & Hove City Council to promote and celebrate the work across the city in this area.

## Summary of Themes

### 1. Developing Leadership of Maths

Summary of outcomes	Summary of actions
Primary and Secondary headteachers are fully engaged and supportive of maths as a city wide focus	We will make sure that maths is mentioned at all headteacher meetings and it will be the theme for the autumn Business Meeting for school leaders
Leadership of maths judged to be at least good by department reviews and / or headteacher monitoring	We will use Jane Jones (HMI), a seconded teacher from Varndean College and expertise from the University of Brighton to train and support senior leaders with maths observations.  Through subject networks, coaching and opportunities such as Making maths Outstanding (MMO), we will develop leadership in schools
Every school to have confident and effective maths specialists	Range of opportunities through MaST, MMO and to develop specialists. Existing teachers to work with others for this
TAs & Cover Supervisors to be judged at least good	Develop TA training for all secondary maths TAs and cover supervisors
Improve retention in Mathematics NQTs in Brighton & Hove  Brighton & Hove produces more robust and resilient practitioners	Links with the Universities. Schools to take more students and there to be a 'follow on' programme for NQTs when they start.  Form an Early Professional Development Group
Brighton & Hove attracts the best NQTs – the place to come and place to stay for innovative mathematics teachers as a vibrant community	Increase capacity for mathematics depts to host trainee teachers and ensure a good supply of quality NQTs working in the city through creative approaches to mentoring
All schools in Brighton & Hove engaged in training beginning teachers – larger number of trainee teacher placements to ensure a good supply of NQTs committing to the city	Schools and Universities to develop links and programmes that are more effective.

## 2. Improving Teaching and Learning of Maths

Summary of outcomes	Summary of actions
Relational teaching rather than instrumental evident in lessons, work scrutiny	<p>Range of opportunities for teachers including courses such as Making Maths Outstanding, Action research and team exploration</p> <ul style="list-style-type: none"> <li>• Learning walks and work scrutiny</li> <li>• Coaching</li> <li>• Action research</li> <li>• Working with others</li> <li>• Links to appraisal</li> <li>• Expectation from line managers</li> <li>• Follow up</li> <li>• Challenge poor practice especially around marking, obs etc</li> </ul>
Improve quality of teaching and mathematical pedagogy (all lessons judged at least good and progress for pupils in case study)	<p>Support for small projects across schools</p> <p>NCETM (National Centre for Excellent Mathematics Teaching) projects</p> <p>Use of the Ofsted materials for maths</p> <p>Subject networks, conferences and sharing of practice. Writing up the outcomes of the MMO etc for different themes</p>
<p>Improve Transition: Y1, Y3 Y7 and Y12 transfer</p> <p>Year 7 Survey shows changing attitudes</p>	<p>Develop the Transition project developed by the Teaching School and roll out across the city</p>

## 3. Engaging Families and Communities with Maths

Summary of outcomes	Summary of actions
Parents feel confident supporting children with maths	<p>Supporting schools to communicate effectively with parents about maths.</p> <p>Schools develop leaflets and booklets and hold open days</p>
Schools know where and how to refer parents to maths classes	<p>Family Workshops – explaining different methods used in maths today (criteria template can be created &amp; sent to the schools)</p>
Link events across the City and raise profile of Maths so the perception of mathematics as a valuable and fun life skill is improved	<p>More adult level 2 numeracy programmes</p> <p>Link with: Libraries/ Museums (e.g. Baby boogie include counting songs etc)</p> <p>Children Centres, Hubs, Music and Arts service</p> <p>Sports development team, Festival theme?</p> <p>Work with the events teams across Brighton &amp; Hove to make maths part of the event</p> <p>e.g. Brighton Festival/ Brighton Fringe Festival/ Brighton Food and Drink Festival / Takepart/ People's Day/ Community Park events (St Ann's Wells) (Queens Park) etc</p>

