

Mapping of Primary, Secondary, Further and Higher Education Initiatives relevant to Bioscience

Primary Education	Williams Review of Early Years & Primary Mathematics Education – Identified lack of confident teaching of Mathematics as a constraint to effective learning at this level; few primary schools teachers are qualified higher than GCSE Grade C in Mathematics; review recommended every primary school should have a specialist Mathematics teacher; Government is currently implementing recommendation					Science Learning Centres - Offering CPD to those involved in science education at every level	National Centre for Excellence in the Teaching of Mathematics - Offering strategic leadership for mathematics specific CPD. It aims to raise the professional status of those engaged in the teaching of mathematics so that mathematical potential of learners will be fully realised
Secondary Education	14-19 Science Diploma	Functional Skills (Maths, English & ICT) Levels Foundation 1 to 3; Levels 1 & 2 – to improve learners' mastery / application of mathematics (FS to replace Key Skills)	GCSE Mathematics 1 & 2 – pilot to begin in 2010 of twin mathematics GCSE exam. It will reflect new curriculum including functional skills. One to focus on application and one to focus on problem solving		GCE AS / A2 Mathematics Review – QCA recommend changes of 6 units to 4 units and some specification changes for first teaching Sept 2011		
Further Education		Further Education Knowledge Transfer Networks - Networks are being established to encourage FE to offer business knowledge transfer	Further Education Master Classes - To update FE lecturers in the new technologies	Further Education Industrial Fellowships - Grants available to help FE lecturers get industrial experience	Foundation Degree Development Sheffield Hallam FD Mathematics (statistics)	3 Higher Education Academy Subject Centres 1) Bioscience, 2) Physical Sciences 3) Mathematics, Statistics Subject Centre remit is to disseminate subject specific good practice teaching and learning – centres also have employer engagement role to disseminate employer demand for higher level skills / education	
Higher Education	More Maths Grads Project – to increase numbers of graduates in mathematical sciences	Chemistry for our Future Project – to stimulate interest in Chemistry from School to Higher Education	3 Higher Level Skills Pathfinder Projects (Employer demand Bioscience project funding available in North West & North East)	Open University FD Business Improvement Techniques	On-line CPD - being developed by Open University with Cambridge, Derby and London Universities so higher education can offer professional CPD in the open market		
	30 Lifelong Learning Networks – to develop progression routes from L2&3 to L4 and above	Higher Education Employer Engagement Projects – Various Universities have funding to engage employers and deliver workforce development solutions	National Higher Education STEM Programme – Increase numbers of STEM grads & meet employer's needs for higher level skills within workforce led by University of Birmingham	44 PhD Training Centres for Science & Engineering (Initiative announced Dec 08)	Science Learning Centres Offer training courses to higher education personnel to improve presentation skills to promote science education		
	QAA Benchmark Statements – opportunity for employers to influence degree curriculum	Higher Education Subject Review of Chemistry – to review / improve teaching & learning of Chemistry	Employer based Training Accreditation - aligns employer training with university standards, brokering recognition between employers and universities.	Undergrad / Grad Development Toolkit - for SME employers			

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