

## LEARNING DEVELOPMENT PROJECT OVERVIEW FORM

Project title	Web hosted AIM tests suitable for undergraduate mathematics		Project ID No	<b>CLAD – HIST060</b>
Strategy area/theme	Mathematics and statistics			
Start date	October 2001	Completion date	August 2002	
Project type	Learner enhancement project			
Level	Undergraduate	Programme of study	Single honours, joint honours, major/minor combinations	
Aims	<ul style="list-style-type: none"> <li>to improve and enhance student learning in the important first year module Mathematics Core (the linked modules 06 11225 and 06 11228),</li> <li>to improve student support and to implement better monitoring in the crucial transitional phase of undergraduate study in mathematics.</li> </ul>			
Objectives	<p>O1.To replace, from the session 2002-2003 onwards, for all students concerned, 50% of the traditional paper-based exercises with a more flexible regime including opportunities for self-evaluation with clear and rapid feedback for the student and monitoring facilities for the lecturing team.</p> <p>O2.To replace, from the session 2002-2003 onwards, for all students concerned, about half the formal paper-based continuous assessment with web-delivered tests with consistent, clear and rapid feedback both to students and lecturing team.</p> <p>O3.To pilot three self-evaluation tests and at least one formal test in the second term of the 2001-2002 session, for all students concerned, as part of a well-designed study into the added value (or otherwise) to students' learning.</p> <p>O4.To provide a substantial amount of generic mathematical questions and randomly generated tests of various levels of difficulty, both for self-learning and for formal assessment. ("A substantial amount" in this context means at least that all types of skills-based questions which currently feature in "Mathematics Core" should be accounted for.)</p> <p>O5.To deliver these questions via a powerful computer algebra package to ensure mathematical sophistication and a high standard of presentation.</p> <p>O6.To exploit existing or emerging technology to present mathematical expressions in questions and answers efficiently and to a high standard.</p> <p>O7.To provide the administrative tools (or linkage to existing tools) to allow for both a self-assessment and a formal assessment mode and to allow an efficient processing of student data.</p>			

	O8.To disseminate information about the developing system to enable other modules and teaching in other disciplines to benefit from the project.
Overview	To introduce in a phased and planned fashion the integrated use of web-based, computer algebra assisted learning and assessment tools into the revised first year provision in mathematics.
Further Information	For further information on this project please contact CLAD at University of Birmingham <a href="mailto:cladprojects@contacts.bham.ac.uk">cladprojects@contacts.bham.ac.uk</a> quoting CLAD projects HIST060