Introduction

Numeracy in Science
This iBook has been produced to help you as you develop your delivery of triple science so that your students are enabled to succeed. It explores strategies to use with students to develop their ability and use of numeracy skills in science. The iBook does not aim to develop the numeracy skills of teachers, for which support and guidance is available from other sources including:

- The DfE website
- The teachersmedia website
- The Education Scotland website
- Mathcentre provide this numeracy refresher resource, which was developed and trialled by staff of the University of Birmingham Careers Centre and subsequently used widely throughout the HE Sector. There are sections which review decimals, fractions, averages, percentages and ratios, making it a useful resource for Key Stage Three upwards.

The iBook is made up of four chapters, three of which focus on the development of the numeracy skills students need in order to be successful in triple science at GCSE.

The final chapter, Next Steps and Evaluation, recognises the importance of planning a course of action and subsequently evaluating the impact upon students’ progress. With the exception of this last chapter, all of the chapters are free standing and can be explored in any order.

To access the chapter(s) that you select, simply click on the relevant chapter title from the contents page.

This chapter will give you the opportunity to:

- Identify ways in which the teaching of numeracy skills and the development of pupils’ capabilities can be enhanced. This may inform decisions about priorities to explore and develop with colleagues in your department;
- Consider how to make best use of the activities and resources provided in the chapter(s) you decide to explore.

Contents
This iBook can be used to support the development of triple science delivery in your department. You will find it most helpful if you are:

• A science teacher or teaching assistant working with the science department,
• A science subject leader,
• A whole school co-ordinator of numeracy.

It concentrates on key aspects of numeracy which have been shown to limit the progress and outcomes of students at GCSE, and explores ways in which these aspects can be developed during the delivery of triple science.

Each page contains activities to help you explore and reflect on different aspects of numeracy that are important in science so as to enable you to provide a curriculum which is effective and appropriate to meet the needs of the students in your school; some activities could be used to stimulate discussion and development within a science department meeting.

When selecting activities to try, it is recommended that you identify and select a few activities which support your priorities.

Please reflect on the impact of the activities you try.