



The Mathematics, Numeracy & Statistics Area mainly offers support to students who are struggling with the mathematical and statistical components of their degree programme. Whilst this includes degrees, such as engineering, where mathematical content is expected, it is also aimed at social science subjects like psychology, business & management etc, where students may be shocked to discover they need to get to grips with far more maths than they can recall from their (rather distant) GCSE studies.

Students can also have problems with the mathematics aspect of their courses due to not having done any mathematics since their GCSE studies or having a big time gap between their A-level and university studies. It is important to keep on top of your mathematics workload and not to leave revision of this subject area until the examination period.

There are many resources that are available for students to use to help bridge the gap between GCSE and undergraduate mathematics. However, the onus will be on you self-identifying that you need help and then dealing with the particular mathematical issue(s) that you have. For this purpose you may try some diagnostic tests to determine your strength. These tests can be found from our website.

Many online resources have been developed for students to help improve their skills and build the confidence in Mathematics. These resources are freely available and should be used as additional material and not as replacements to attending lectures.

For example, you can find the **quick reference leaflets** which are ideal to use if you need a refresher. However if you are new to the topic area or need more explanation then **teach-yourself booklets** are more ideal. You can download and print these resources and work through them in your own time and at your own place.

You can get links to video tutorials, with diagnostics, summary text and exercises, take you through wide range of topics in the way you choose. You can view and work with them online, or order them on DVD-ROM. In these video materials experienced teachers and

tutors demonstrate solutions to a wide range of maths problems that are known to challenge students.

The links to various databases of interactive PDF files, online textbooks in maths and statistics and to global open educational resources, for example, Massachusetts Institute of Technology OpenCourseWare, China Open Resource for Education, the University of California etc can be found on LH website.

From this website you will find links to workbooks and workshops handouts, which you can download and use to help you overcome problems in the area of mathematics.

Each booklet covers a particular area of mathematics and all follow a similar structure. In each subsection you firstly look over some theory and then there are some examples to go through. Each subsection ends with some practice questions to ensure that you have understood the theory and can apply it. Full solutions to all questions are provided at the end of each booklet.

These booklets have been used at Brunel University in small group workshops with undergraduate students. Students have found that working through the booklets has helped them to develop skills in the topic being covered and to build confidence in the particular area of mathematics.

Please do remember that mathematics is a skill that you can develop by **practice**; the more you practice the more confident you become.