

## A Level Mathematics Resources

These resources have been designed by lecturers in the Department of Applied Mathematics at Liverpool John Moores University to support teachers in their delivery of the A Level Mathematics curriculum and integrate careers education at a subject level.

Each resource uses an area of mathematics that can support the delivery of the A Level Mathematics curriculum:

Newton Cooling	Ordinary differential equations
Inventory Management	Differentiation, manipulating surds
Waiting in Queues	Differentiation, integration & surds, integration by parts and conditional distributions

Each presentation covers the example and provides information about relevant careers in mathematics. There is additional guidance notes for teachers included for some resources.

Use of these resources can support a school or college to meet the following Gatsby Benchmarks for careers education:

- Benchmark 2 – Learning from labour market information
- Benchmark 4 – Linking curriculum to careers
- Benchmark 7 – Encounters with further and higher education

We hope you find these resources useful and if you have any questions or ideas for other resources which would be useful, please contact [FET-Engagement@ljmu.ac.uk](mailto:FET-Engagement@ljmu.ac.uk).