

# Linear Programming: SWEDEBUILD

## Supporting Material for Teachers

This is the Teachers' Resource Pack for the 'SWEDEBUILD' linear programming workshop. We recommend this workshop for students in years 7-13 and expect it to take 1 to 1.5 hours.

### The resource pack includes:

- Student worksheet
- Teacher notes
- Presentation
- Answer sheet

### Not included:

- 6 x rectangle Lego bricks for each student/pair of students
- 8 x square Lego bricks for each student/pair of students

### Before running the workshop:

Each student/pair of students will need:

- Lego

Each student will need:

- Student worksheet

### Learning/curriculum areas:

- GCSE
  - Algebra notation, vocabulary and manipulation
  - Solving algebraic equations and inequalities
  - Calculations with integers
  - Graphs of equations and functions, interpreting graphs
- A Level
  - Algebra and functions of inequalities
- A Level: Decision/Discrete maths
  - Linear programming
  - Use graphical methods to solve constrained optimisation problems and/or two variable problems where integer solutions are required

This information is also available for download at [www.theorsociety.com](http://www.theorsociety.com) or by emailing [education@theorsociety.com](mailto:education@theorsociety.com).