

## Bin Packing: Theatre Booking Supporting Material for Teachers

This is the Teachers' Resource Pack for the Theatre Booking bin packing workshop. We recommend this workshop for students in years 10-13 and expect it to take 1 to 1.5 hours.

### The resource pack includes:

- Student worksheet
- Teacher notes
- Presentation
- Answer sheet
- Modelling pack (theatre seating grid and booking groups)
- Pros & cons sheet

### Not included:

- N/A

### Before running the workshop:

Each pair of students will need:

- A modelling pack (theatre seating grid and booking groups)
- Pros & cons sheet

These can be cut out ahead of time or students can cut them out in class.

Each student will need:

- Student worksheet

### Learning/curriculum areas:

- GCSE
  - whole number theory
  - structure & calculation
- A Level: Decision/Discrete maths
  - definition of an algorithm
  - working with & implementing algorithms
  - awareness of uses and limitations of algorithms
  - bin packing algorithms

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