



# EPPro8 Challenge

*Engineer Problem Solve Innovate*

## Flood the Room – Teacher's Notes

### Summary

Teams will build a measuring device.

Using this device, and some practical mathematics, they will calculate how long it would take to flood the entire classroom or hall with water.

### Principles

Geometry, Measurements, Mechanisms, Practical Mathematics.

### Extra Equipment

- 7L Systema container. It needs to be this specific container as the dimensions for this are very close to 200mm x 333mm (which is  $1/5^{\text{th}}$  metre x  $1/3^{\text{rd}}$  metre).

The students will be working out how many containers it requires to make  $1\text{m}^2$ , so having a container size that divides into 1m makes the maths much simpler.

- Stopwatch.
- Icecream container lid (or equivalent).

### What to Aim For

See the "Getting the Most from your Equipment" document for guidelines on what to aim for from these challenges.

### Our Solution

