

## **Numbas online assessment in Covid times**

### **Abstract**

Numbas is an open-source e-assessment system developed at Newcastle University, which is used extensively for the assessment of mathematics. The randomisation of questions along with immediate marking and feedback make the tool very powerful, particularly for formative use. The applications however go far beyond the teaching of mathematics itself, with particularly innovative use during online teaching over the past year. This talk will look at some of the ways that the features of Numbas have been adapted to assess skills such as data analysis, computer programming and laboratory work. New models for assessment, used as part of online learning and assessment over the past year will be presented.