A freely available computer aided assessment tool to provide maths examples galore!



The brainchild of Martin Greenhow Brunel University

- Drug calculations follow standard types
- Students "want" to do lots (and lots) of practice examples
- Students benefit from instant feedback (not just tick or cross)
- Students appreciate access to resource at any time
- All this points to a computer-based resource

The challenge is to create questions of standard types with randomised parameters that are realistic

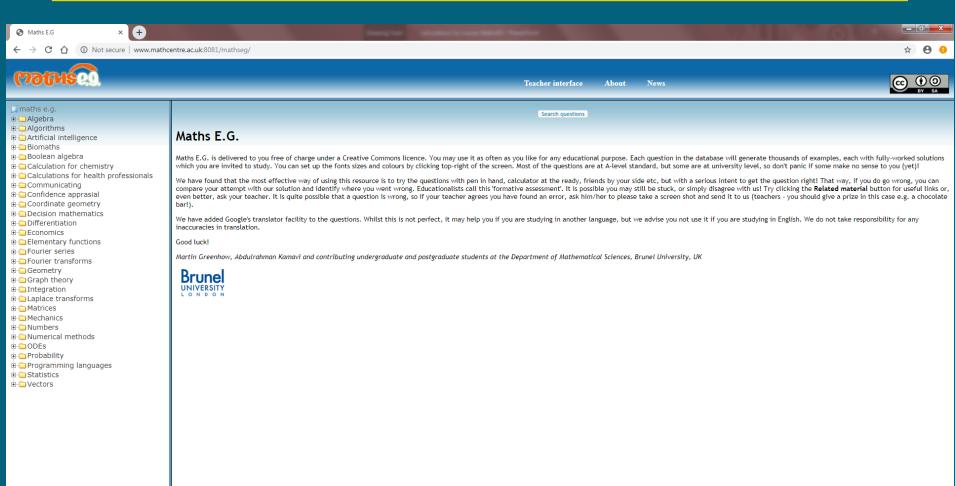
Sensible

Patient is prescribed furosemide 100 mg. On hand is a suspension of 20 mg in 5 mL. What volume do you give?

Silly

Patient is prescribed furosemide 834 mg. On hand is a suspension of 47 mg in 19 mL. What volume do you give?

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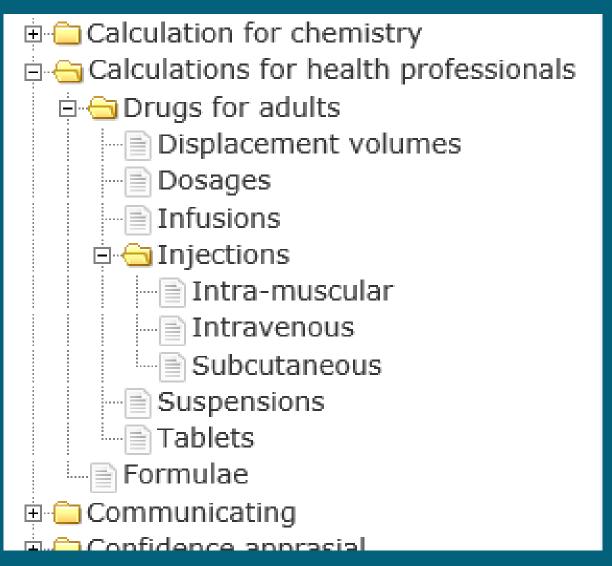




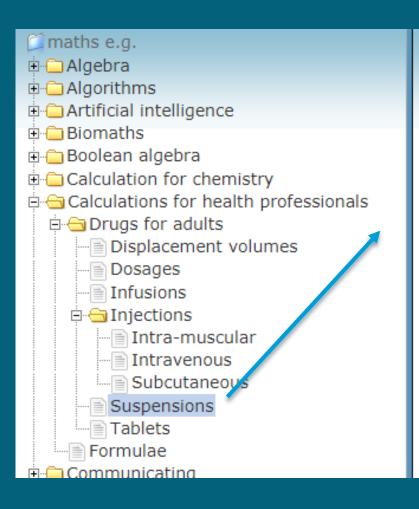




Calculations for Nurses tree structure (about 100 question 'spaces' with randoms)

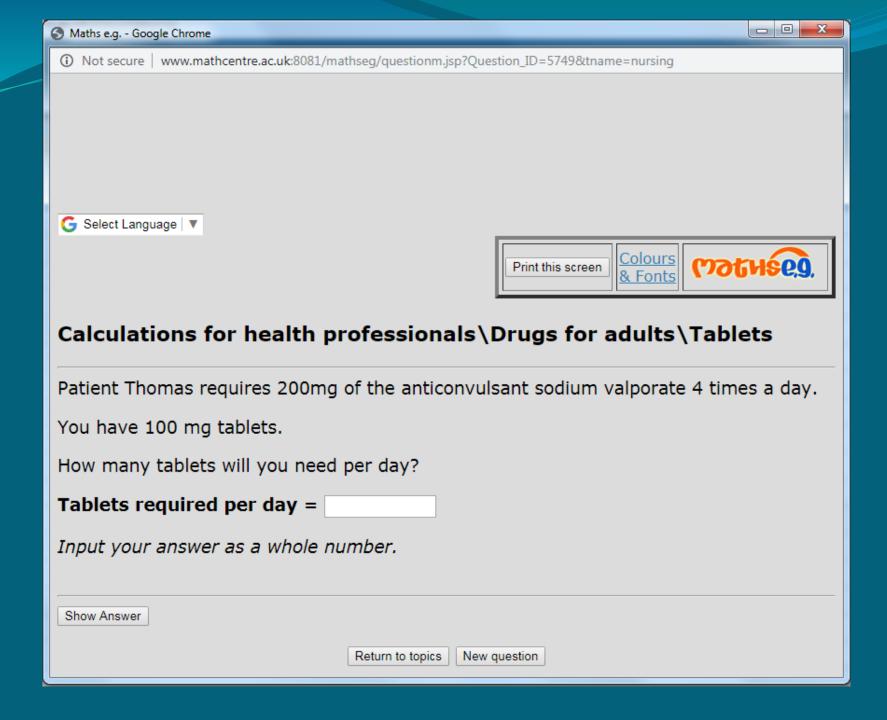


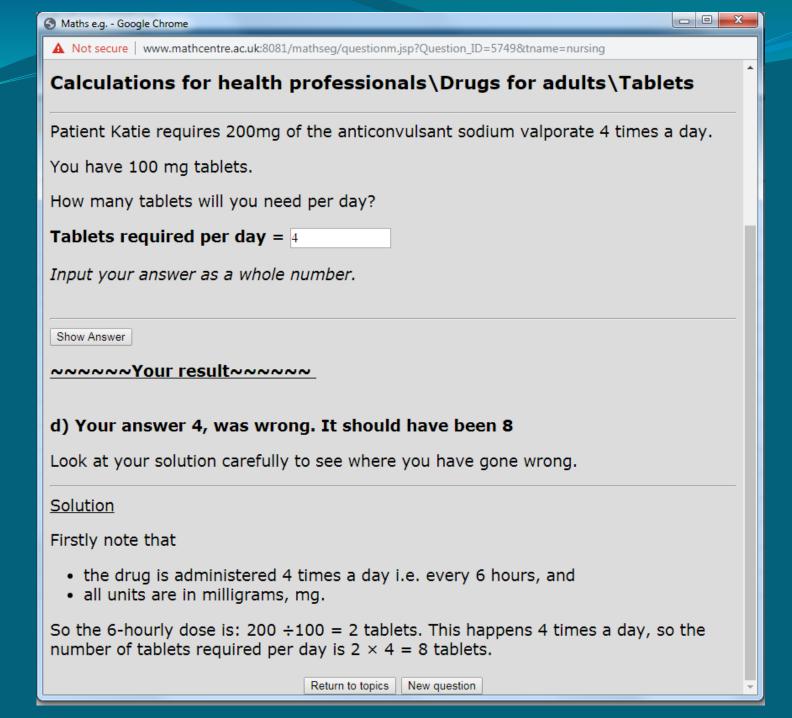
Selecting a topic brings up a list of standard questions types



Calculations for health professionals\Drug

No	Description
1	erythromycin x mg in y ml z mg needed; RNI
2	furosemide x mg in y ml z mg needed; RNI
3	simvastin x mg in y ml z mg needed; RNI
4	sodium valporate x mg in y ml z mg needed; RNI





A Teacher' Interface (log-in required, simple and free to register) lets you create a test based on randomly-generated questions taken from the topic areas you choose.

The test is saved in your online account, and you get a URL for the test to give your students.

Full instructions are given (it's a bit tricky first time)

Martin and colleagues would welcome any feedback on MathsEG, and suggestions for additional topics to include.

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