

**Pensby High School**

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GCSE Science equations

Dear Parent / Carer

As discussed at the 'Welcome to Key Stage 4' evening, the mathematical demand of the new GCSE courses has increased significantly. Students will no longer be supplied with formulae sheets when sitting their exams and so are required to know twenty equations for GCSE Combined Science and twenty two equations for GCSE Physics. Students at both foundation and higher tier are also now required to be able to change the subject of each of these equations in order to make use of them in some questions.

For students to succeed, it is essential that all of these equations are committed to memory over time and to support this, the list of required equations has been attached to this letter. Also attached are the list of 'command words' that students will come across in their tests and examinations.

It would greatly support your child's progress if these two documents could be displayed somewhere prominent at home and if you regularly run through them.

The new exams present significant challenges to our young people and success will only come through a high level of support from both school and home. Should you have any questions, please contact me at school.

Yours faithfully

J Clement-Evans
Head of Science