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### **Review of Longman resources for teachers and pupils studying 21<sup>st</sup> Century Science**

This assorted set of resources published by Longman intended for the use with GCSE 21<sup>st</sup> Century Additional Science offer a comprehensive scheme for this new and much talked about qualification.

The layout of each topic within the textbook is user friendly, colour and diagrams are used responsibly, not excessively, to add interest. Many of the diagrams are eye catching and you are drawn to the explanations alongside. Photographs are fresh and add value and interest to the text. Apparatus diagrams and pictures are of modern lab equipment not out of date dusty kit. The book is written with a clear sense of audience, all new key words are given in bold and the glossary is ample, the only place it lacks which other texts offer are phonetic spellings after the more complicated new terms.

The teachers guide is concise and clear, offering custom made lessons for each topic within every module of the 21<sup>st</sup> century additional GCSE. It helpfully includes answers to textbook questions and 'points to note', for example: the need for KS3 textbooks available in the classroom to help answer initial questions within a topic, as well as a complete mark scheme for the end of module tests. All available worksheets are clearly indicated along with brief practical ideas and instructions. This guide is written with all science teachers in mind. In my opinion it's a useful drop-in for the experienced and a step by step resource to ease the pressures on NQT's.

The copy master file of pupil worksheets is as straight forward to use as you would expect. Each sheet indicates additional resources required e.g. glue, scissors and each module contains a variety of interesting activities to hopefully engage pupils and stimulate further thinking. The only downside is that some sheets are particularly wordy and would not suit being copied onto A5 (our department insists on this to save money), however, most sheets include clear diagrams or amusing cartoons relating to the task. The end of module tests contains enough challenge to be suitable for higher level students without losing the concise nature of questions similar to those in the textbook. However grade boundaries for these module tests aren't made clear within the teachers file, which may cause confusion.

Overall a great set of new resources to complement established as well as inexperienced science departments in setting the scene to this new and exciting way of teaching and learning science in the 21<sup>st</sup> century.