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## ***Science 5***

**A complete six-year primary Science course that takes a problem-solving approach to teaching young learners the skills they need to think like scientists. Inquiry-based general science curriculum for the fifth grade**

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**featuring a text/workbook that students can write in. The fifth volume of Dr Needham's immense undertaking, like the fourth, is subdivided into parts for ease of assimilation and presentation, each part bound and published separately. The volume as a whole covers the subjects of alchemy,**

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**early chemistry, and chemical technology (which includes military invention, especially gunpowder and rockets; paper and printing; textiles; mining and metallurgy; the salt industry; and ceramics).**

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**school assessment, mentoring, transitions and a topics-based approach. Reference to the ‘big ideas’ of biology, chemistry and physics with chapters clearly related to this new subject structure. Updated tables of progression in each topic area and reference to cross-curricular contexts.**

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**New self-assessment questions for teachers, the option for higher-level thinking and further reading. An updated chapter on subject leadership with an increasing emphasis on monitoring progress. Bringing together research undertaken from a range of activities in the field, this book**

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children moving from  
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promoting  
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*understanding,  
develop  
application of  
knowledge in  
new situations,  
and develop  
Scientific  
Enquiry skills.  
There is also an  
exercise to  
practise the  
core vocabulary*

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*from each unit.  
Learning  
objectives  
clearly lay down  
the expected  
outcome of each  
chapter. Emphas  
is is given on  
understanding  
concepts using  
very simple  
explanations*



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*and language.  
Multiple Choice  
Questions  
(MCQs) are  
included in  
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transition from  
KS2 to KS3  
The Challenge*

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to match their  
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and Norbert  
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directions."  
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takes an enquiry-  
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to learning,*

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*engaging  
students in the  
topics through  
asking  
questions that  
make them  
think and  
activities that  
encourage them  
to explore and  
practise. As  
students*

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*progress through the course, they not only learn about science but how to think like a scientist. They learn the language of scientific enquiry, for example the*

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*meaning of observe and predict mean in a scientific context, as well as the important key words for talking about a topic. The topics are explored in careful stages, introducing*

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*different aspects at a pace that allows students to absorb and practise what they have learned. Photos, illustrations and diagrams are used to help students explore*

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*and understand,  
and the  
language is  
clear and easy  
for primary  
children to  
understand. For  
the teacher, the  
Teacher's  
Guides provide  
step-by-step  
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*lesson, guiding students through the topic, and supporting students with their language development when needed*

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write-in Workbook  
linked to the Student's  
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*final days. We'll see  
some untypical things  
along the way, meet  
some untypical folk:  
galactic lighthouses  
from the distant  
future, alien tombs  
from the distant past,  
murderers, emperors,  
archaeologists and  
drunks; mad  
mathematicians  
attempting to wake  
the universe itself*



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*up. And when humans have fallen back into savagery, when the secrets of space folding and perfect wisdom are forgotten, we'll attend the empire's deathbed, hold its hand as it goes. Unfortunately that may well only be the beginning.*

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