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#### ТоК

We've almost completed our new edition of ToK for the 2013 curriculum change.

#### **Group 4 Sciences**

The Group 4 Sciences curriculum change is also keeping us busy, but we are lucky enough to be working with expert authors on updating our extensive suite of resources.

#### Read more...

Some of our authors have taken time out from writing manuscripts to provide an overview of just some of the changes happening in the IB. Read more about curriculum changes, EAL support and online, digital learning in the classroom in our latest IB magazine, available to download online at: www.PearsonSchool.com/IBprograms

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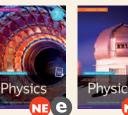
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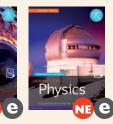


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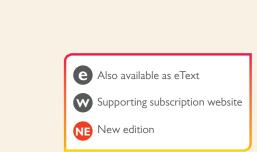








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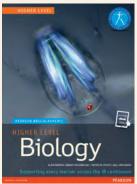
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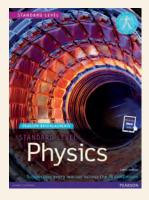
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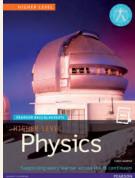
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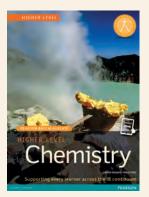


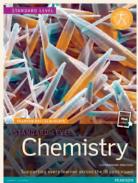
Updated for the 2014 Group 4 curriculum review

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#### UPDATED

Updated for the 2014 Group 4 curriculum review

#### 02 Atomic structure 1g his example, the formation of water (described above) can be write $2H + 1O \rightarrow H_2O$ But what are atoms really like? It can be useful to think of them as hard spheres (Figure 2.1), but this tells us little about how the atoms of different elements differ. To understand this, it is necessary to probe deeper. The first indication to an end of the second of the second Θ

perties of electrons, or cathode rays as they wern overful vacuum pumps had been invented – and and understanding of electricity and magnetism ogy have often been the drivers for new discove

As it was known that the atom had no net charge, Thomson pictured the atom as a 'plum pudding', with the negatively charged electrons scattered in a positively charged sponge-like substance (Figure 2.2).

HUTHERITOR'S MOGEN of The atom. There Ratherford (1871-1937) and his research team working at Manchester University in England, tested Thomson's model by firing alpha particles at a piece of gold foil. We now how that alpha particles are holium nucle; composed of two protons and two neutrons, with a positive charge. They are emitted by mudei with two many protons to be atable. If Thomson's model was correct, the alpha particles should either pass straight through or get struck in the positive 'sponge'. Most of the alpha particles did indeged pass straight through or get struck in the positive 'sponge'. Most of the alpha particles did indeged pass straight through to are straight through but are yrsmall number were regelled and bounced back. Ernest Rutherford recalled that 'two squite the most incredible thing that has happened to me. It was as if you had fired a a critilery) shell at a piece of itsue paper and it came back and hit you.

The large number of undeflected particles led to the conclusion that the atom is mainly empty space. Large deflections occur when the positively charged alpha particles collide with and are repelled by a positively charged nuclear (Figure 2-3). The fact that only a small number of alpha particles bounce back saggests that the nucleus is very

ТоК

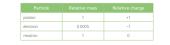
Clear and imaginative links to ToK - of interest to the student as an individual, and easily integrated into classroom discussion.

Θ

#### • Y • Y • (•(•) • ` • ` • ` • ` )• χ. • 7 • 7 • $(\bullet)(\bullet)$

Sub-endotine particless A hundred years or so fare Dalon first proposed his model, experiments showed that atoms are themselves made up from smaller or sub-atomic particles. The nuckeus of the atom is made up of protons and neutrons. As they both reade in the nucleus of the atom they are sometimes called **nucleoses**. Both the protons and neutron have almost the same mass as a lydrogen nucleus and account for the most of the mass of the atom. **Bectroms**, which have a charge equal and opposite to that of the proton, occupy the species in the atom outside of the nucleus.

These particles are described by their *relative* masses and charges which have n The absolute masses and charges of these fundamental particles are given in S of the IB data booklet.



Sample pages from Higher Level Chemistry

#### an understanding of the proof and iustification of scientific knowledge and the scientific world view.

Nature of science Central to the new curriculum

is an emphasis on the nature of

science. Margin boxes promote



as examples of a variety of real-world applications.

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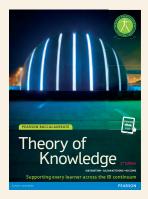
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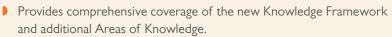




04

# Theory of KnowledgeNEW EDITION2nd edition for the IB Diploma

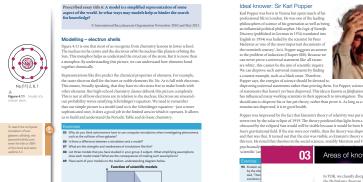
The TOK book rewritten to exactly match the new curriculum

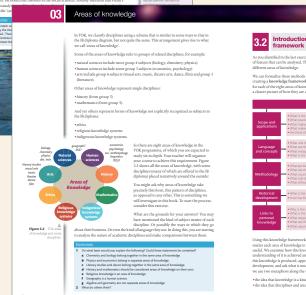


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Chapter 12: Shared and Personal Knowledge Systems Chapter 13: Assessment

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IB

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Glossary Index

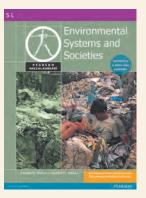
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matter acta area of knowledge is focused on, and how the knowledge produced is used in We examine how this knowledge is produced and shared, and how a common understanding of it is achieved among communities of knowners. We kook at how this knowledge is produced, appraise the correlation of important individuals to its development, and ask what it means to us an individual. To help us with this goal, we use row methydroxing the way. "whe kis nat knowledge is a kind of mag (Chapter 000) "whe kis nat knowledge is a kind of mag (Chapter 000) "whe kis nat knowledge is a kind of mag (Chapter 000).

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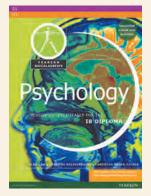
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