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Essential

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match to the
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syllabus, this
completely
revised edition
gives you
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support directly
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practice, TOK
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Programme
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Revision Guide
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the IB syllabus for

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screen size or
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renowned experts
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teaching, the text
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learners in mind.
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questions allow
learners to track
their progress, and
exam-style
questions help
learners to prepare
thoroughly for their
examinations.

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range of resources,
and encourage a deep
understanding of each
subject by making
connections to wider
issues and providing
opportunities for
critical thinking. It has
been written by a
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the IB Diploma
Program Chemistry
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extensively reviewed
by teachers,
consultants and the
IBO. With material
integrated to include
international and
historical perspectives,
students are
encouraged to think
critically and make
connections to other
subjects and to world
issues. Includes

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material for cross curricular connections to help students think critically about science and consider its evolution, full coverage of the core and AHL as well as selective coverage of the Options, provides a wealth of illustrations to help explain difficult

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concepts, material for CAS and the extended essay as well as examination questions included for critical thinking, examination practice and reinforcement of concepts learned.

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for complete syllabus-
matching. Written by
the highly experienced
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and David Moore,
you can be confident
that you and your
students have all the
resources you will
need for the new
Chemistry curriculum.
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boxes throughout the
text ensure an
embedding of these
core considerations

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and promote concept-based learning.

Applications of the subject through everyday examples are described in utilization boxes, as well as brief descriptions of related industries, to help highlight the relevance and context of what is being learned.

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offered in the
Challenge Yourself
exercises and
activities, along with
guidance and support
for laboratory work on
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Exam-style assessment
opportunities are
provided from real
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with hints for success
in the exams, and

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guidance on how to
avoid common pitfalls.

Clear links are made
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and the IB core
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Relationships Atomic
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Higher Level

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The Merck Report
A Comprehensive
Treatise on Inorganic
and Theoretical
Chemistry
Improving Advanced
Study of Mathematics
and Science in U.S.
High Schools
The World's Paper
Trade Review
A Complete Exam
Review Course

***What are
"essential
questions," and
how do they
differ from
other kinds of
questions?
What's so great
about them?
Why should you
design and use
essential
questions in***

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***your classroom?
Essential
questions (EQs)
help target
standards as
you organize
curriculum
content into
coherent units
that yield
focused and
thoughtful
learning. In the***

***classroom, EQs
are used to
stimulate
students'
discussions and
promote a
deeper
understanding
of the content.
Whether you
are an
Understanding
by Design***

***(UbD) devotee
or are
searching for
ways to address
standards—local
or Common
Core State
Standards—in
an engaging
way, Jay
McTighe and
Grant Wiggins
provide***

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***practical
guidance on
how to design,
initiate, and
embed inquiry-
based teaching
and learning in
your classroom.
Offering dozens
of examples,
the authors
explore the
usefulness of***

EQs in all K-12 content areas, including skill-based areas such as math, PE, language instruction, and arts education. As an important element of their backward design approach to

***designing
curriculum,
instruction, and
assessment, the
authors *Give a
comprehensive
explanation of
why EQs are so
important;
*Explore seven
defining
characteristics
of EQs;***

****Distinguish
between topical
and overarching
questions and
their uses;
*Outline the
rationale for
using EQs as
the focal point
in creating
units of study;
and *Show how
to create***

***effective EQs,
working from
sources
including
standards,
desired
understandings,
and student
misconceptions.
Using essential
questions can
be
challenging—fo***

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***r both teachers
and
students—and
this book
provides
guidance
through
practical and
proven
processes, as
well as
suggested
"response***

strategies" to encourage student engagement. Finally, you will learn how to create a culture of inquiry so that all members of the educational community—students, teachers,

and administrators—benefit from the increased rigor and deepened understanding that emerge when essential questions become a guiding force for learners of all ages.

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***Advances in
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Chemistry,
Volume 3
reviews and
evaluates some
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high
temperature
chemistry.
Comprised of
six chapters,***

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this volume first discusses the principles concerned with high temperature chemistry. After introducing short-range ordering in crystals, this book shows how to interpret

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***liquid alloy
activity
measurements.
It also covers
various
techniques such
as
photoionization
mass
spectroscopy,
photoelectron
spectroscopy,
and microwave***

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spectroscopy.
This book ends
with a
discussion on
oxahalides and
other transition
elements.
Researchers
and high
temperature
chemists will
find this book
useful.

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***This book takes
a fresh look at
programs for
advanced
studies for high
school students
in the United
States, with a
particular focus
on the
Advanced
Placement and
the***

***International
Baccalaureate
programs, and
asks how
advanced
studies can be
significantly
improved in
general. It also
examines two of
the core issues
surrounding
these programs:***

they can have a profound impact on other components of the education system and participation in the programs has become key to admission at selective institutions of higher

education. By looking at what could enhance the quality of high school advanced study programs as well as what precedes and comes after these programs, this report provides

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***teachers,
parents,
curriculum
developers,
administrators,
college science
and
mathematics
faculty, and the
educational
research
community with
a detailed***

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***assessment that
can be used to
guide change
within advanced
study programs.
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Libraries of the
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Emplacement
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20th-Century
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***the Archives of
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Comprehensive
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Cs, Fr***

The International
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better and more peaceful world through intercultural understanding and respect. What began as a single program for internationally mobile students preparing for college has grown into a series of

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students up to age
19. Barron's is
pleased to offer a
brand new course
review and exam
preparation guide
for the IB*

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of the book is based
on the subject
guide, published by*

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Organization. It
covers all topics
required for exams
beginning in 2014
and includes: A full-
length diagnostic
test with
markscheme and
fully explained
answers Study tips
and exam*

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*strategies Topic
review and practice
for each strand of
the IB Math SL
curriculum,
including
explanations and
examples as well as
problem sets with
fully explained
solutions Two full-
length practice
exams with*

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markschemes and fully explained answers This all-encompassing book can also serve as a supplement to classroom instruction throughout the two-year IB Math SL course, a resource for the Internal Assessment project,

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resource during
first year college
math courses.*

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subject IB
chemistry requires
tremendous effort
to understand fully
and attain a high
grade. 'IB
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provides clear
explanations for the
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Question,
Benchmark, Valid
Information, Avoid
Fact Traps, Milk the
Question, The Trap
of Familiarity,
Eliminate Answers,
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Brainstorm, Read
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Yourself, Answer
Selection, Check
Your Work, Beware
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researched by
the authors to
bring the**

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**subject of
chemistry up-to-
date, this text
provides
complete
coverage of the
new A- and AS-
level core
specifications.
The inclusion of
objectives and
questions make
it suitable for**

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