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Science
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Textbook

*Science is a
way of knowing
about the
world. At once
a process, a*

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*product, and an
institution,*

*science enables
people to both
engage in the
construction of
new knowledge
as well as use
information to
achieve desired
ends. Access to
scienceâ€"wheth
er using*

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*knowledge or
creating itâ€"n
ecessitates
some level of
familiarity
with the
enterprise and
practice of
science: we
refer to this
as science
literacy.*

Science

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*literacy is
desirable not
only for
individuals,
but also for
the health and
well-being of
communities and
society. More
than just basic
knowledge of
science facts,
contemporary*

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*definitions of
science*

*literacy have
expanded to
include*

*understandings
of scientific
processes and
practices,*

familiarity

with how

science and

scientists

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*work, a
capacity to
weigh and
evaluate the
products of
science, and an
ability to
engage in civic
decisions about
the value of
science.*

*Although
science*

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literacy has traditionally been seen as the responsibility of individuals, individuals are nested within communities that are nested within societies and, as a result,

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*individual
science*

*literacy is
limited or
enhanced by the
circumstances
of that
nesting.*

*Science
Literacy
studies the
role of science
literacy in*

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*public support
of science.*

*This report
synthesizes the
available
research
literature on
science
literacy, makes
recommendations
on the need to
improve the
understanding*

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*of science and
scientific
research in the
United States,
and considers
the
relationship
between
scientific
literacy and
support for and
use of science
and research.*

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*This program
helps students*

make the

important

connection

between the

science they

read and the

science they

experience

every day.

Relevant

content, lively

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*explorations,
and a wealth of
hands-on
activities help
students
understand that
science exists
well beyond the
page and into
the world
around them.
Effective
science*

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*teaching
requires
creativity,
imagination,
and innovation.
In light of
concerns about
American
science
literacy,
scientists and
educators have
struggled to*

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*teach this
discipline more
effectively.*

Science

Teaching

Reconsidered

provides

undergraduate

science

educators with

a path to

understanding

students,

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*accommodating
their
individual
differences,
and helping
them grasp the
methods--and
the wonder--of
science. What
impact does
teaching style
have? How do I
plan a course*

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*curriculum? How
do I make
lectures,
classes, and
laboratories
more effective?
How can I tell
what students
are thinking?
Why don't they
understand?
This handbook
provides*

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productive approaches to these and other questions.

Written by scientists who are also educators, the handbook offers suggestions for having a greater impact in the

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*classroom and
provides
resources for
further
research.*

[*Concepts in
Action
Teacher's
Edition with
Earth and Space
Science
Concepts,
Contexts, and*](#)

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Consequences
Action Textbook

Physical

Science

Concepts in

Action

Concepts in

Action, with

Earth and Space

Science

Communities in

Action

Physical

Science

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Science:

Concepts in
Action

(Oklahoma

Customized

Student Edition

The Goal

*One of TIME's Ten
Best Nonfiction
Books of the
Decade "Meet the
new Stephen*

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*Hawking . . . The
Order of Time is a
dazzling book."*

--The Sunday Times

*From the
bestselling author
of Seven Brief
Lessons on Physics,
comes a concise,
elegant exploration
of time. Why do we
remember the past
and not the future?*

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*What does it mean
for time to "flow"?*

*Do we exist in time
or does time exist
in us? In lyric,*

accessible prose,

Carlo Rovelli

invites us to

*consider questions
about the nature of
time that continue
to puzzle physicists
and philosophers*

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alike. For most readers this is unfamiliar terrain. We all experience time, but the more scientists learn about it, the more mysterious it remains. We think of it as uniform and universal, moving steadily from past to future, measured

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by clocks. Rovelli tears down these assumptions one by one, revealing a strange universe where at the most fundamental level time disappears. He explains how the theory of quantum gravity attempts to understand and

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*give meaning to the
resulting extreme
landscape of this
timeless world.*

*Weaving together
ideas from
philosophy, science
and literature, he
suggests that our
perception of the
flow of time
depends on our
perspective, better*

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Concepts In

*understood starting
from the structure
of our brain and
emotions than from
the physical
universe. Already a
bestseller in Italy,
and written with
the poetic vitality
that made Seven
Brief Lessons on
Physics so
appealing, The*

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*Order of Time
offers a profoundly
intelligent,
culturally rich,
novel appreciation
of the mysteries of
time.*

*Learn the basics of
Data Science
through an easy to
understand
conceptual
framework and*

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Action Textbook

*immediately
practice using
RapidMiner
platform. Whether
you are brand new
to data science or
working on your
tenth project, this
book will show you
how to analyze
data, uncover
hidden patterns
and relationships to*

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aid important decisions and predictions. Data Science has become an essential tool to extract value from data for any organization that collects, stores and processes data as part of its operations. This

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*book is ideal for
business users,
data analysts,
business analysts,
engineers, and
analytics
professionals and
for anyone who
works with data.
You'll be able to:
Gain the necessary
knowledge of
different data*

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*science techniques
to extract value
from data. Master
the concepts and
inner workings of
30 commonly used
powerful data
science algorithms.
Implement step-by-
step data science
process using using
RapidMiner, an
open source GUI*

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*based data science
platform Data*

*Science techniques
covered:*

*Exploratory data
analysis,*

Visualization,

Decision trees,

*Rule induction, k-
nearest neighbors,*

Naïve Bayesian

*classifiers, Artificial
neural networks,*

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*Deep learning,
Support vector
machines,
Ensemble models,
Random forests,
Regression,
Recommendation
engines,
Association
analysis, K-Means
and Density based
clustering, Self
organizing maps,*

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*Text mining, Time
series forecasting,
Anomaly detection,
Feature selection
and more...*

*Contains fully
updated content on
data science,
including tactics on
how to mine
business data for
information*

Presents simple

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*explanations for
over twenty
powerful data
science techniques
Enables the
practical use of
data science
algorithms without
the need for
programming
Demonstrates
processes with
practical use cases*

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Introduces each algorithm or technique and explains the workings of a data science algorithm in plain language
Describes the commonly used setup options for the open source tool RapidMiner
Imagine... a

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*physical science
course that gives
fundamental
principles a fresh
new twist and
engages students
on a level they
understand and
enjoy. Pearson
Physical Science:
Concepts in Action
delivers exactly
that -- an active*

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approach to learning that inspires and motivates the next generation of students. Relevant content, lively explorations, and a wealth of hands-on activities help students understand that science exists well

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*beyond the page
and into the world!*

[Assessment of the
Scientific
Information for the
Radiation Exposure
Screening and
Education Program
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Program Planner
National Chemistry](#)

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Physics Earth
Science

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Physical Science
2011 Earth and
Space Student
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with Earth and
Space Science

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Life Science
Action Textbook

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: with Earth and
Space Science.

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workbook level A
with math support

High School

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W/Earth & Space
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Edition

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[Teacher's Ed](#)

Next Generation
Science Standards
identifies the
science all K-12
students should
know. These new
standards are based
on the National
Research Council's
A Framework for
K-12 Science

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Education. The National Research Council, the National Science Teachers Association, the American Association for the Advancement of Science, and Achieve have partnered to create standards through a

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collaborative state-
led process. The
standards are rich
in content and
practice and
arranged in a
coherent manner
across disciplines
and grades to
provide all students
an internationally
benchmarked
science education.

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The print version of
Next Generation

Science Standards
complements the
nextgenscience.org
website and:

Provides an
authoritative offline
reference to the
standards when
creating lesson
plans Arranged by
grade level and by

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core discipline,
making information
quick and easy to
find Printed in full
color with a lay-flat
spiral binding

Allows for
bookmarking,
highlighting, and
annotating

Inquiry-based life
science curriculum
for the middle

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school grades
featuring a
textbook/workbook
that students can
write in. May be
used as part of a
sequence with the
Interactive science:
physical science and
Interactive science:
Earth science titles
by the same
authors.

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Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States'

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position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A

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Framework for K-12

Science Education

proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science

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Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to

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curriculum,
instruction,
assessment, and
professional
development for
educators. This
book identifies
three dimensions
that convey the core
ideas and practices
around which
science and
engineering

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education in these
grades should be

built. These three
dimensions are:

crosscutting

concepts that unify
the study of science
through their

common application
across science and

engineering;

scientific and

engineering

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practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have

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sufficient
knowledge of
science and
engineering to
engage in public
discussions on
science-related
issues, be careful
consumers of
scientific and
technical
information, and
enter the careers of

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their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book

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will guide standards
developers,
teachers,
curriculum
designers,
assessment
developers, state
and district science
administrators, and
educators who
teach science in
informal
environments.

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[Prentice Hall
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A Framework for
K-12 Science
Education
A Process of
Ongoing
Improvement
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Interactive Science](#)

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[Science Teaching
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[Reconsidered](#)

[A Handbook](#)

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In the United States,
some populations
suffer from far
greater disparities in
health than others.
Those disparities are

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caused not only by
fundamental
differences in health
status across
segments of the
population, but also
because of inequities
in factors that impact
health status, so-
called determinants
of health. Only part
of an individual's

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health status depends
on his or her

behavior and choice;

community-wide

problems like

poverty,

unemployment, poor

education,

inadequate housing,

poor public

transportation,

interpersonal

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violence, and

decaying

neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a

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community, it does not mean they are

intractable: such inequities can be mitigated by social policies that can shape health in powerful ways.

Communities in Action: Pathways to Health Equity seeks to delineate the

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causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of

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communities or
Action Textbook
support them, as well
as the root causes
and structural
barriers that need to
be overcome.

Alex Rogo is a
harried plant
manager working
ever more
desperately to try
and improve

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performance. His
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factory is rapidly
heading for disaster.
So is his marriage.
He has ninety days to
save his plant - or it
will be closed by
corporate HQ, with
hundreds of job
losses. It takes a
chance meeting with
a colleague from

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student days - Jonah
- to help him break
out of conventional
ways of thinking to
see what needs to be
done. Described by
Fortune as a 'guru to
industry' and by
Businessweek as a
'genius', Eliyahu M.
Goldratt was an
internationally

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recognized leader in
the development of
new business
management
concepts and
systems. This 20th
anniversary edition
includes a series of
detailed case study
interviews by David
Whitford, Editor at
Large, Fortune Small

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Business, which explore how organizations around the world have been transformed by Eli Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the

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ideas which
underline the Theory
of Constraints
(TOC) developed by
Eli Goldratt. Written
in a fast-paced
thriller style, The
Goal is the gripping
novel which is
transforming
management
thinking throughout

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the Western world. It
is a book to

recommend to your
friends in industry -
even to your bosses -
but not to your
competitors!

Prentice Hall

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helps students make

the important

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connection between
the science they read
and what they
experience every
day. Relevant
content, lively
explorations, and a
wealth of hands-on
activities take
students'
understanding of
science beyond the

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page and into the
world around them.

Now includes even
more technology,
tools and activities to
support
differentiated
instruction!

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with Earth and Space
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Science (Teacher's
Edition).

The Evolution of
Physics
Practices,
Crosscutting
Concepts, and Core
Ideas

The Radiation
Exposure
Compensation Act

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(RECA) was set up by Congress in 1990 to compensate people who have been diagnosed with specified cancers and chronic diseases that could have resulted from exposure to

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nuclear-weapons tests at various U.S. test sites. Eligible claimants include civilian onsite participants, downwinders who lived in areas currently designated by RECA, and uranium workers

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and ore transporters who meet specified residence or exposure criteria. The Health Resources and Services Administration (HRSA), which oversees the screening,

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education, and
referral services
program for RECA
populations, asked
the National
Academies to
review its program
and assess
whether new
scientific
information could
be used to

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improve its
program and
determine if
additional
populations or
geographic areas
should be covered
under RECA. The
report
recommends
Congress should
establish a new

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science-based process using a method called "probability of causation/assigned share" (PC/AS) to determine eligibility for compensation. Because fallout may have been higher for people

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outside RECA-designated areas, the new PC/AS process should apply to all residents of the continental US, Alaska, Hawaii, and overseas US territories who have been diagnosed with

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specific RECA-
compensable
diseases and who
may have been
exposed, even in
utero, to radiation
from U.S. nuclear-
weapons testing
fallout. However,
because the risks
of radiation-
induced disease

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are generally low at the exposure levels of concern in RECA populations, in most cases it is unlikely that exposure to radioactive fallout was a substantial contributing cause of cancer.

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Practice

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Pathways to
Health Equity

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