

**NATURAL SCIENCES**  
**TERM 2: MATTER & MATERIALS**  
**GRADE 8**  
**Lesson plan 1**

| TOPIC: ATOMS                                                                                                                                  |                                                                      |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---|
| Sub-topic: Atoms – building blocks of matter                                                                                                  | Duration: 30min                                                      |   |
| CONTENT & CONCEPTS (CAPS p40)                                                                                                                 |                                                                      |   |
| KEY CONCEPTS                                                                                                                                  |                                                                      |   |
| 1. Matter                                                                                                                                     |                                                                      |   |
| 2. Atoms                                                                                                                                      |                                                                      |   |
| Specific Aims:                                                                                                                                | Specific Aim 1: 'Doing Science'                                      |   |
|                                                                                                                                               | Specific Aim 2: 'Knowing the subject content and making connections' | X |
|                                                                                                                                               | Specific Aim 3: 'Understanding the uses of Science'                  |   |
| Process Skills: Accessing and recalling information                                                                                           |                                                                      |   |
| LESSON OBJECTIVES:                                                                                                                            |                                                                      |   |
| 1. Learners will be able to demonstrate understanding atoms as the smallest building blocks of matter.                                        |                                                                      |   |
| 2. Learners will be to display understanding that different elements are made of different atoms.                                             |                                                                      |   |
| RESOURCES REQUIRED:                                                                                                                           |                                                                      |   |
| • Periodic Table Poster                                                                                                                       |                                                                      |   |
| • Examples of various elements                                                                                                                |                                                                      |   |
| • Textbooks: e.g. Siyavula Explore Gr. 8A                                                                                                     |                                                                      |   |
| Web links:                                                                                                                                    |                                                                      |   |
| • The Periodic Table (Live) - <a href="http://www.chemeddl.org/resources/ptl/index.html">http://www.chemeddl.org/resources/ptl/index.html</a> |                                                                      |   |
| Video links:                                                                                                                                  |                                                                      |   |
| • The Periodic Table (Explained) - <a href="https://youtu.be/72xwtrbkUTY">https://youtu.be/72xwtrbkUTY</a>                                    |                                                                      |   |
| TEACHING & LEARNING ACTIVITIES:                                                                                                               |                                                                      |   |
| Revision of concept matter from previous grades using a flow diagram (refer to teachers guide).                                               |                                                                      |   |
| Introduction of an atom.                                                                                                                      |                                                                      |   |
| Activities:                                                                                                                                   |                                                                      |   |
| 1. Teacher presents content of an atom as the building block of matter e.g. Siyavula Gr 8A p.120-123.                                         |                                                                      |   |
| 2. Learners complete an exercise based on the concept of matter and atoms                                                                     |                                                                      |   |
| TEXTBOOK REFERENCES: (Indicate textbook used and reference page numbers)                                                                      |                                                                      |   |
| ASSESSMENT:                                                                                                                                   |                                                                      |   |
| Informal                                                                                                                                      |                                                                      |   |

# Natural Science Lesson Plan Grade 8

**David Baud**



## **Natural Science Lesson Plan Grade 8:**

**Natural Science and Indigenous Knowledge** Edward A. Johnson, Susan M. Arlidge, 2024-04-18 This book considers the similarities and differences between Indigenous knowledge and science and how when taken together they enrich one another. Advanced students and researchers in natural resource management, ecology, conservation, and environmental sciences will learn about the practices of Indigenous people in the natural world. **Science of Life: Biology Parent Lesson Plan**

, 2013-08-01 The Science of Life Biology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester. You can change the sequence of the semesters per the needs or interests of your student. Materials for each semester are independent of one another to allow flexibility. Semester 1 Intro to Science Have you ever wondered about human fossils, cave men, skin color, ape men, or why missing links are still missing? Want to discover when T Rex was small enough to fit in your hand? Or how old dinosaur fossils are and how we know the age of these bones? Learn how the Bible's world view not evolution's unites evidence from science and history into a solid creation foundation for understanding the origin, history, and destiny of life including yours. In Building Blocks in Science Gary Parker explores some of the most interesting areas of science: fossils, the errors of evolution, the evidences for creation, all about early man, and human origins, dinosaurs, and even races. Learn how scientists use evidence in the present, how historians use evidence of the past, and discover the biblical world view not evolution that puts the two together in a credible and scientifically sound way. Semester 2 Life Science Study clear biological answers for how science and Scripture fit together to honor the Creator. Have you ever wondered about such captivating topics as genetics, the roll of natural selection, embryonic development, or DNA and the magnificent origins of life? Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ. Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years. The evolutionary worldview can be found filtered through every topic at every age level in our society. It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions. This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process. Survey of Science History & Concepts Parent Lesson Plan, 2013-08-01 Survey of Science History Concepts Course Description Students will study four areas of science: Scientific Mathematics, Physics, Biology, and Chemistry. Students will gain an appreciation for how each subject has affected our lives and for the people God revealed wisdom to as they sought to understand Creation. Each content area is thoroughly explored, giving students a good foundation in each discipline. Semester 1 Math and Physics Numbers surround us. Just try to make it through a day without using any. It's impossible: telephone numbers, calendars, volume settings, shoe sizes, speed limits, weights, street numbers, microwave timers, TV channels, and the list goes on and on. The many advancements and branches of mathematics were developed through the centuries as people encountered problems and

relied upon math to solve them It s amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia first hand during fun and informative experiments Exploring the World of Physics is a great tool for student who want to have a deeper understanding of the important and interesting ways that physics affects our lives Semester 2 Biology and Chemistry The field of biology focuses on living things from the smallest microscopic protozoa to the largest mammal In this book you will read and explore the life of plants insects spiders and other arachnids life in water reptiles birds and mammals highlighting God s amazing creation You will learn about biological classification how seeds spread around the world long term storage of energy how biologists learned how the stomach digested food the plant that gave George de Mestral the idea of Velcro and so much more For most of history biologists used the visible appearance of plants or animals to classify them They grouped plants or animals with similar looking features into families Starting in the 1990 s biologists have extracted DNA and RNA from cells as a guide to how plants or animals should be grouped Like visual structures these reveal the underlying design of creation Exploring the World of Biology is a fascinating look at life from the smallest proteins and spores to the complex life systems of humans and animals Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument Exploring the World of Chemistry brings science to life and is a wonderful learning tool with many illustrations and biographical information

**Resources in Education** ,2001 **Survey of Science Specialties Parent Lesson Plan** ,2013-08-01 Survey of Science Specialities Course Description This is the suggested course sequence that allows two core areas of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials within each semester are independent of one another to allow flexibility Quarter 1 Archaeology The Archaeology Book takes you on an exciting exploration of history and ancient cultures You will learn both the techniques of the archaeologist and the accounts of some of the richest discoveries of the Middle East that demonstrate the accuracy and historicity of the Bible You will unearth how

archaeologists know what life was like in the past why broken pottery can tell more than gold or treasure can some of the difficulties in dating ancient artifacts how the brilliance of ancient cultures demonstrates God's creation history of ancient cultures including the Hittites Babylonians and Egyptians the early development of the alphabet and its impact on discovery the numerous archaeological finds that confirm biblical history Quarter 2 Geology The Geology Book will teach what really carved the Grand Canyon how thick the Earth's crust is why the Earth is unique for life the varied features of the Earth's surface from plains to peaks how sedimentary deposition occurs through water wind and ice effects of erosion ways in which sediments become sedimentary rock fossilization and the age of the dinosaurs the powerful effects of volcanic activity continental drift theory radioisotope and carbon dating geologic processes of the past Our planet is a most suitable home Its practical benefits are also enhanced by the sheer beauty of rolling hills solitary plains churning seas and rivers and majestic mountains all set in place by processes that are relevant to today's entire population of this spinning rock we call home Quarter 3 Cave Explore deep into the hidden wonders beneath the surface as cave expert Dr Emil Silvestru takes you on an illuminating and educational journey through the mysterious world of caves Discover the beautiful thriving ecology unique animals and fragile balance of this little seen ecosystem in caves from around the globe The Cave Book will teach you about a creationary model for how caves form a history of how caves have been used by humans for shelter and worship how old caves really are the surprising world of Neanderthals and their connection to modern humans how to make a stone axe and about early tools just how long it really takes for cave formations to form unusual animals that make caves their home examples of how connected caves are to mythology of many cultures the climate and geologic processes and features of caves and karst rocks the process by which ice caves form exploration hazards and record setting caves how caves form and features above and below the surface Quarter 4 Fossil Fossils have fascinated humans for centuries But where did they come from and how long have they been around These and many other questions are answered in this remarkable book The Fossil Book will teach you about the origin of fossils how to start your own fossil collection what kinds of fossils can be commonly found the age of fossils how scientists find and preserve fossils how to identify kinds of fossils how the Flood affected fossil formation the Geologic Column Diagram the difference between evolutionists and creationists views on fossils the four Cs of biblical creation the different kinds of rocks fossils are found in coal and oil formation Learning about fossils their origins and how to collect them can be both fun and educational *Advanced Pre-Med Studies Parent Lesson Plan*, 2013-08-01

Advanced Pre Med Studies Course Description Semester 1 From surgery to vaccines man has made great strides in the field of medicine Quality of life has improved dramatically in the last few decades alone and the future is bright But students must not forget that God provided humans with minds and resources to bring about these advances A biblical perspective of healing and the use of medicine provides the best foundation for treating diseases and injury In *Exploring the History of Medicine* author John Hudson Tiner reveals the spectacular discoveries that started with men and women who used their

abilities to better mankind and give glory to God The fascinating history of medicine comes alive in this book providing students with a healthy dose of facts mini biographies and vintage illustrations It seems that a new and more terrible disease is touted on the news almost daily The spread of these scary diseases from bird flu to SARS to AIDS is a cause for concern and leads to questions such as Where did all these germs come from and how do they fit into a biblical world view What kind of function did these microbes have before the Fall Does antibiotic resistance in bacteria prove evolution How can something so small have such a huge deadly impact on the world around us Professor Alan Gillen sheds light on these and many other questions in The Genesis of Germs He shows how these constantly mutating diseases are proof for devolution rather than evolution and how all of these germs fit into a biblical world view Dr Gillen shows how germs are symptomatic of the literal Fall and Curse of creation as a result of man's sin and the hope we have in the coming of Jesus Christ Semester 2 Body by Design defines the basic anatomy and physiology in each of 11 body systems from a creationist viewpoint Every chapter explores the wonder beauty and creation of the human body giving evidence for creation while exposing faulty evolutionist reasoning Special explorations into each body system look closely at disease aspects current events and discoveries while profiling the classic and contemporary scientists and physicians who have made remarkable breakthroughs in studies of the different areas of the human body Within Building Blocks in Life Science you will discover exceptional insights and clarity to patterns of order in living things including the promise of healing and new birth in Christ Study numerous ways to refute the evolutionary worldview that life simply evolved by chance over millions of years The evolutionary worldview can be found filtered through every topic at every age level in our society It has become the overwhelmingly accepted paradigm for the origins of life as taught in all secular institutions This dynamic education resource helps young people not only learn science from a biblical perspective but also helps them know how to defend their faith in the process

Concepts of Mathematics & Physics Parent Lesson Plan ,2013-08-01 Concepts of Mathematics and Physics Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Mathematics Numbers surround us Just try to make it through a day without using any It's impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It's amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Semester 2 Physics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn

about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia firsthand during fun and informative experiments Exploring the World of Physics is a great tool for students who want to have a deeper understanding of the important and interesting ways that physics affects our lives [Intro to Speleology & Paleontology Parent Lesson Plan](#) ,2013-08-01 Introduction to Speleology and Paleontology Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Speleology Explore deep into the hidden wonders beneath the surface as cave expert Dr Emil Silvestru takes you on an illuminating and educational journey through the mysterious world of caves Discover the beautiful thriving ecology unique animals and fragile balance of this little seen ecosystem in caves from around the globe The Cave Book will teach you about a creationary model for how caves form a history of how caves have been used by humans for shelter and worship how old caves really are the surprising world of Neanderthals and their connection to modern humans how to make a stone axe and about early tools just how long it really takes for cave formations to form unusual animals that make caves their home examples of how connected caves are to mythology of many cultures the climate and geologic processes and features of caves and karst rocks the process by which ice caves form exploration hazards and record setting caves how caves form and features above and below the surface Filled with beautiful and fascinating color photos of caves from around the world The Cave Book is a wonderful guide to this hidden world of wonderful Enjoy learning on your journey of exploration into these exciting and mysterious places underground Semester 2 Paleontology Fossils have fascinated humans for centuries From the smallest diatoms to the largest dinosaurs finding a fossil is an exciting and rewarding experience But where did they come from and how long have they been around These and many other questions are answered in this remarkable book The Fossil Book will teach you about the origin of fossils how to start your own fossil collection what kinds of fossils can be commonly found the age of fossils how scientists find and preserve fossils how to identify kinds of fossils how the Flood affected fossil formation the Geologic Column Diagram the difference between evolutionists and creationists views on fossils the four Cs of biblical creation the different kinds of rocks fossils are found in coal and oil formation Learning about fossils their origins and how to collect them can be both fun and educational The abundance of both marine and land fossils and the locations they are found in is a fascinating subject for students of all ages and has been studied by scientists and layperson alike for many years [Intro to Meteorology & Astronomy Parent Lesson Planner](#) ,2013-08-01 Introduction to Meteorology and Astronomy Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1

Meteorology The Earth was created to be the dwelling place of man It is a complex world and its weather patterns affect our lives every day Whether you live near the equator a polar region or somewhere in between knowledge of the weather is important The Weather Book will teach you why our exact distance from the sun allows life on earth how the weather on the other side of the earth affects you how clouds form and how to identify the different types what the difference is between a cold and warm front why you can often see lightning long before you can hear thunder how to build your own weather station how to survive in dangerous weather what the greenhouse effect and the ozone hole are what Noah s flood and the Ice Age have in common how weatherpersons forecast hurricanes and tornadoes how to read a weather map and what our responsibility is to the environment Learning about the weather is fun It will change the way you look at the clouds in the sky Now you ll have more of an understanding about what is going on miles above your head And when you hear a weather report on television you will understand so much more about the world around you Semester 2 Astronomy One thing we have in common with the ancients is that all of the human race has gazed at the night sky and the bright morning and wondered What s out there Our universe is so vast and awe inspiring that to learn about it is to learn about ourselves The Astronomy Book will teach you what long ago astronomers thought about other worlds solar system facts how constellations relate to astrology the history of space exploration black holes do they exist the origin and age of the moon why Mars doesn t support life the composition of stars supernova remnants and the myth of star birth asteroid legends and the extinction of the dinosaurs are there planets outside our solar system and could they be home to intelligent life what are UFOs and the age of comets and meteor showers Learning about the universe is huge fun In the almost infinite expanse above us we can examine planets galaxies and phenomena so beautiful and complex that we never outgrow a childlike wonder We see our own reflection in the moon the stars and in comet trails The more we learn the less we fear

**Resources for Teaching Middle School Science** Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each



annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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### **Natural Science Lesson Plan Grade 8 Introduction**

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