

## 8<sup>th</sup> Grade Science 1<sup>st</sup> Semester Exam Study Guide

### SCIENTIFIC METHOD

1. Why is it important for scientists to be skeptical? If a scientist is skeptical of the results of an experiment, what should he usually do?

Skepticism is one of the most valuable tools in science. Continual questioning of ideas and results is a means of overturning long-held assumptions and uncovering new ideas. A skeptic in science will continually review the credibility of a scientific result or idea.

2. What makes an experiment valid?

When the results give validity to the question (hypothesis) that is being asked or tested.

3. What is the difference between qualitative and quantitative data?

Qualitative Data is used to describe something using your 5 senses. Quantitative Data is when you describe something using numbers.

### EARTH SCIENCE

4. What are the 4 layers of the Earth?

Inner core, outer core, mantle and crust

5. What are the two types of crust? What types of rock are they made of? Which type is more dense?

Continental – granite and Oceanic – basalt, oceanic is more dense

6. Which layer of the Earth is made of the crust plus the upper mantle (this layer is rigid and brittle like a jolly rancher)?

Lithosphere

7. Which layer of the Earth is plastic and flowing (like silly putty)?

Asthenosphere

8. Which layer (asthenosphere or lithosphere) is broken into large pieces called plates?

Lithosphere

9. Which layer (asthenosphere or lithosphere) carries the plates?

Asthenosphere

10. What process causes the tectonic plates to move?

Convection currents

11. What are the three types of plate boundaries? Describe how the plates move at each (toward each other, away from each other, or slide past each other).

Convergent – Plates come together/collide. Divergent – plates move away from each other/divide. Transform – plates slide past each other/shear

12. Describe what happens when the following plates collide:

- a. Continental crust collides with continental crust – mountains
- b. Continental crust collides with oceanic crust – subduction zone, oceanic trench and volcanoes, rift valleys
- c. Oceanic crust collides with oceanic crust - volcanoes

13. Where are ALMOST all volcanoes formed?

Volcanoes are most commonly found at subduction zone boundaries. This is where the thinner oceanic plates get pulled under the thicker continental plates. As the plates go deeper, they melt and form pockets of magma which can cause mountains to be built and as the hot magma rises, it erupts out of volcanoes.

14. What is a hot-spot volcano?

This is an extra hot plume of molten rock which causes the earth's crust to thin allowing molten rock to escape onto the surface. The movement of the earth's tectonic plates means that volcanoes form a trail along the earth's surface.

15. What occurs when too much stress builds up at a plate boundary and the rock finally breaks?

Earthquake

# Grade 8 Science Study Guide

**Matthew Phillips**

## Grade 8 Science Study Guide:

*Class 8 Science MCQ (Multiple Choice Questions)* Arshad Iqbal, The Class 8 Science Multiple Choice Questions MCQ Quiz with Answers PDF 8th Grade Science MCQ PDF Download Quiz Questions Chapter 1 12 Practice Tests with Answer Key Science Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 8 Science MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 8 Science MCQ PDF book helps to practice test questions from exam prep notes The Class 8 Science MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Class 8 Science Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters Ecology food and digestion food chains and webs heating and cooling light magnetism man impact on ecosystem microorganisms and diseases respiration and circulation rock cycle rocks and weathering sound and hearing worksheets with revision guide Class 8 Science Quiz Questions and Answers PDF free download eBook s sample covers beginner s solved questions textbook s study notes to practice online tests The book Grade 8 Science MCQs Chapter 1 12 PDF includes middle school question papers to review practice tests for exams Class 8 Science Multiple Choice Questions MCQ with Answers PDF digital edition eBook a study guide with textbook chapters tests for NEET Jobs Entry Level competitive exam 8th Grade Science Mock Tests Chapter 1 12 eBook covers problem solving exam tests from science textbook and practical eBook chapter wise as Chapter 1 Ecology MCQ Chapter 2 Food and Digestion MCQ Chapter 3 Food Chains and Webs MCQ Chapter 4 Heating and Cooling MCQ Chapter 5 Light MCQ Chapter 6 Magnetism MCQ Chapter 7 Man Impact on Ecosystem MCQ Chapter 8 Micro Organisms and Diseases MCQ Chapter 9 Respiration and Circulation MCQ Chapter 10 Rock Cycle MCQ Chapter 11 Rocks and Weathering MCQ Chapter 12 Sound and Hearing MCQ The Ecology MCQ PDF e Book Chapter 1 practice test to solve MCQ questions on Habitat population and community The Food and Digestion MCQ PDF e Book Chapter 2 practice test to solve MCQ questions on Balanced diet digestion energy value of food human digestive system and nutrients in food The Food Chains and Webs MCQ PDF e Book Chapter 3 practice test to solve MCQ questions on Decomposers energy transfer in food chain food chains and webs The Heating and Cooling MCQ PDF e Book Chapter 4 practice test to solve MCQ questions on Effects of heat gain and loss heat transfer temperature and heat The Light MCQ PDF e Book Chapter 5 practice test to solve MCQ questions on Light colors light shadows nature of light and reflection of light The Magnetism MCQ PDF e Book Chapter 6 practice test to solve MCQ questions on Magnetic field magnets and magnetic materials making a magnet and uses of magnets The Man Impact on Ecosystem MCQ PDF e Book Chapter 7 practice test to solve MCQ questions on Conserving environment human activities and ecosystem The Micro Organisms and Diseases MCQ PDF e Book Chapter 8 practice test to solve MCQ questions on Microorganisms micro organisms and viruses and what are micro organisms The Respiration and Circulation MCQ PDF e Book Chapter 9 practice test to solve MCQ questions on

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**New York State Grade 8 Science Test** Edward J. Denecke,2011-08-01

This streamlined and updated manual presents extensive subject review with practice questions embedded in and following every chapter The book also includes one full length practice written exam with answers and practice performance test items Topic reviews cover all New York State Intermediate Level Core Curriculum topics in the Living Environment and Physical Setting which includes introductions to astronomy geology meteorology chemistry and physics The text is supplemented with instructive line illustrations that have been updated and simplified to that help students visualize science concepts

**Texas**

**Science Grade 8** Castle Rock Research Corp.,2014-09 The SOLARO Study Guide is designed to help students achieve success in school It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments The content in Texas Science Grade 8 is specifically aligned to the Texas state standards for those who intend to have students complete school sciences by the end of eighth grade Each Class Focus includes the following sections Matter and Energy Force Motion and Energy Earth and Space and Organisms and Environments To create this book teachers curriculum specialists and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course The practice questions and sample tests have detailed solutions that show problem solving methods highlight concepts that are likely to be tested and point out potential sources of errors Enhanced treatment of concepts more practice sections and additional learning tools are found in the accompanying online version of SOLARO which may be accessed through the web or on mobile devices

**Florida Grade 8**

**Science Test Prep Guide** Mometrix,2025-08-09 Mometrix Test Preparation s Florida Grade 8 Science Test Prep Guide is the ideal prep solution for anyone who wants to pass their Florida Assessment of Student Thinking FAST The exam is extremely challenging and thorough test preparation is essential for success Our study guide includes 2 practice tests with detailed answer explanations Step by step video tutorials to help you master difficult concepts Tips and strategies to help you get your best test performance A complete review of all FAST test sections Mometrix Test Preparation is not affiliated with or endorsed by any official testing organization All organizational and test names are trademarks of their respective owners The Mometrix guide is filled with the critical information you will need in order to do well on your FAST exam the concepts procedures principles and vocabulary that the Florida Department of Education FDOE expects you to have mastered before sitting for your exam Guide sections include Nature of Science Earth and Space Science Physical Science Life Science and much more Our guide is full of specific and detailed information that will be key to passing your exam Concepts and

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**Resources in Education**, 1984    **California Science Grade 8** Castle Rock Research Corp, 2014-09 The SOLARO Study Guide is designed to help students achieve success in school. It is a complete guide to be used by students throughout the school year for reviewing and understanding course content and for preparing for assessments. The content in California Science Grade 8 is specifically aligned to California's prescribed curriculum for those who intend to have students complete prescribed school sciences by the end of eighth grade. Each Class Focus includes the following sections: Motion, Forces, Structure of Matter, Earth in the Solar System, Reactions, Chemistry of Living Systems, the Periodic Table, Density and Buoyancy, and Investigation and Experimentation. To create this book, teachers, curriculum specialists, and assessment experts have worked closely to develop the instructional pieces that explain each of the key concepts for the course. The practice questions and sample tests have detailed solutions that show problem solving methods, highlight concepts that are likely to be tested, and point out potential sources of errors. Enhanced treatment of concepts, more practice sections, and additional learning tools are found in the accompanying digital version of SOLARO, which may be accessed through the web or on mobile devices.

*RES 8th Grade Science STAAR Study Guide* Responsive Education Solutions, 2016-10-01 Individual 8th Grade Science STAAR Study Guide

**Let's Prepare for the Grade 8 Intermediate-Level Science Test** Edward J. Denecke, 2002-07-01 This test prep title in Barron's new series focuses on Grade 8 New York State Regents assessment tests. It offers a general science subject review, two full length practice exams with answers and explanations, additional practice and review questions with answers, and general test taking advice. Photo and line art illustrations and attention catching sidebars make this book as user friendly as it is helpful to eighth graders.

[Virginia SOL Grade 8 Science Secrets Study Guide](#) Virginia Sol Exam Secrets Test Prep Team, 2014-03-31 Includes Practice Test Questions. Virginia SOL Grade 8 Science Secrets helps you ace the Virginia Standards of Learning Examination without weeks and months of endless studying. Our comprehensive Virginia SOL Grade 8

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*North Carolina Grade 8 Science Success Strategies Study Guide* North Carolina Eog Exam Secrets Test Prep,2018-04-12 North Carolina Grade 8 Science Success Strategies helps you ace the North Carolina End of Grade Tests without weeks and months of endless studying Our comprehensive North Carolina Grade 8 Science Success Strategies study guide is written by our exam experts who painstakingly researched every topic and concept that you need to know to ace your test Our original research reveals specific weaknesses that you can exploit to increase your exam score more than you ve ever imagined North Carolina Grade 8 Science Success Strategies includes The 5 Secret Keys to North Carolina EOG Success Time is Your Greatest Enemy Guessing is Not Guesswork Practice Smarter Not Harder Prepare Don t Procrastinate Test Yourself A comprehensive General Strategy review including Make Predictions Answer the Question Benchmark Valid Information Avoid Fact Traps Milk the Question The Trap of Familiarity Eliminate Answers Tough Questions Brainstorm Read Carefully Face Value Prefixes Hedge Phrases Switchback Words New Information Time Management Contextual Clues Don t Panic Pace Yourself Answer Selection Check Your Work Beware of Directly Quoted Answers Slang Extreme Statements Answer Choice Families Along with a complete in depth study guide for your specific North Carolina EOG exam and much more Science & Technology Study Guide B With Directed Reading Worksheets Physical Science Grade 8 Holt Rinehart and

Winston,Hrw,2007 **The Official Taks Study Guide for Grade 8 Science** Texas Education Agency,2008-04-25 Help your child succeed on the Texas statewide assessments with the premiere resource used by parents and teachers With Practice More for the TAKS grade 8 science you will strengthen your understanding of key concepts needed to succeed on the TAKS exam studying just the subject matter you need help with You ll gain confidence by practicing and exercising the skills learned in class whether at home or school alone or with friends and family to help In Practice More for the TAKS grade 8 science students will understand the core test objectives of the Science portion of the exam by Demonstrating an understanding of the nature of science Demonstrating an understanding of the life sciences Demonstrating an understanding of the physical sciences Demonstrating an understanding of the earth sciences **Science Prep Cat** Matthew

Phillips,2011-07-25 Science Prep Cat 2nd Edition is a comprehensive approach to developing a student's scientific understanding in order to successfully prepare for the new Florida 8th grade science FCAT 2.0 Science content areas associated with the 8th grade FCAT 2.0 are included in this essential 260 page study guide written in the newest Next Generation FCAT 2.0 standards. These areas include Scientific Thinking, Physical and Chemical Sciences, Living Things and Their Environment, and Earth in Space and Time. Science Prep Cat 2nd Edition is complete with a comprehensive glossary, multiple chapters all with review questions, a 60 question final exam, a calculations section, and answer keys for all questions. Content is presented in a ready to use and easy to understand format. Students will have the advantage of jumpstarting their science FCAT preparation months in advance of their class. Independent study has never been easier. Give your student the academic edge with a year's worth of science curriculum at their fingertips. A deeper understanding of science and early preparation will translate into higher FCAT scores for your student.

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