

# Igneous Rocks

Directions: Use your knowledge of Earth Science and the Earth Science Reference Tables to answer the questions in this packet.

1. Which diagram below shows an area in which fine-grained igneous rocks are most likely to be found?



2. Rock J in the diagram represents lava flow that has cooled rapidly at the surface of Earth. Which diagram and description best represents rock J?



3. Which granite sample most likely formed from magma that cooled and solidified at the slowest rate?



4. The flowchart below illustrates the change from melted rock to basalt.



The solidification of the melted rock occurred

- slowly, resulting in fine-grained minerals.
  - slowly, resulting in coarse-grained minerals.
  - rapidly, resulting in fine-grained minerals.
  - rapidly, resulting in coarse-grained minerals.
5. What is the origin of fine-grained igneous rock?
- lava that cooled slowly on Earth's surface
  - lava that cooled quickly on Earth's surface
  - silt that settled slowly in ocean water
  - silt that settled quickly in ocean water
6. Obsidian's glassy texture indicates that it formed
- slowly, deep below Earth's surface
  - slowly, on Earth's surface
  - quickly, deep below Earth's surface
  - quickly, on Earth's surface

# Igneous Rocks Directed Reading Worksheet Answer

**Keith Gordon Cox**



## **Igneous Rocks Directed Reading Worksheet Answer:**

**Challenging Science Standards** Charles R. Ault Jr.,2015-08-06 For several decades educators have struggled to identify the attributes all sciences have in common In the popular mind this effort constitutes the importance of teaching the scientific method In the policy maker s world this pursuit yields standards for all Americans that unify the sciences For teachers the quest for unity has typically meant teaching science as process However a curriculum that prioritizes what all sciences have in common obscures their vital differences For example studying landslides is very different from doing x ray diffraction climate science is unlike medical research Na ve ideas about scientific unity impoverish the public s ability to evaluate scientific enterprises Challenging Science Standards voices skepticism towards the quest for unity Through analyses of disciplinary knowledge school curricula and classroom learning the book uncovers flaws in the unifying dimensions of the science standards It proposes respect for disciplinary diversity and attention to questions of value in choosing what science to teach Illuminated by vignettes of children and adolescents studying topics ranging from snail populations to horse fossils Challenging Science Standards proposes promising remedies Prentice Hall Science Explorer: Teacher's ed ,2005

Glencoe Science McGraw-Hill Staff,2001-09 **A Sourcebook of Elementary Curricula Programs and Projects** Far West Laboratory for Educational Research and Development,Samuel N. Henrie,1972 **The World of Rocks and Minerals Guided Reading 6-Pack** ,2016-12-15 What is the difference between a rock and a mineral Readers will learn the answer to that and much more in this fascinating informational text Igneous rock sedimentary rock metamorphic rock geologists and gemstones are some of the topics that are introduced through clear stunning photos interesting charts and graphs supportive text and an accessible glossary and index An intriguing and captivating hands on lab activity is featured to encourage readers to learn more about geology This 6 Pack includes six copies of this Level U title and a lesson plan that specifically supports Guided Reading instruction Earth Science ,2001 Part of the publisher s science program for middle school students focusing on the Earth *Holt Science and Technology* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2000-05 **Igneous Rocks** Lisa Owings,2014-08-01 Get ready to get your hands dirty with Igneous Rocks With its reader friendly and interactive approach this title covers key curriculum Earth science topics in an engaging way This title explores the natural processes how geologists study igneous rocks and how igneous rocks relate to the reader s daily life Aligned to Common Core standards and correlated to state standards Core Library is an imprint of Abdo Publishing a division of ABDO *Geology, Grades 6 - 12* Logan,2009-12-16 Connect students in grades 5 and up with science using Geology Rocks Minerals and the Earth This 80 page book reinforces scientific techniques It includes teacher pages that provide quick overviews of the lessons and student pages with Knowledge Builders and Inquiry Investigations that can be completed individually or in groups The book also includes tips for lesson preparation materials lists strategies and alternative methods of instruction a glossary an inquiry investigation rubric and a bibliography It allows for differentiated instruction and

supports National Science Education Standards and NCTM standards      **Igneous Rocks and the Rock Cycle** Joanne Mattern,2005-12-15 Describes what igneous rocks are and explains how they are formed      **Igneous Rocks and Their Origin** Reginald Aldworth Daly,1914      *Igneous Rocks* Jenny Fretland VanVoorst,2019-08-01 For most of us igneous rocks are no more than a stone s throw away These underrated rocks make up more than half of Earth s crust Not only that but they have many uses in building medicine and other industries This title dives deep into the properties types formation and uses of igneous rocks Special features designed to visually engage readers such as a profile an activity formation diagrams and a rock cycle chart complete this fact filled read      *Igneous Rocks* Ava Sawyer,2018 Did you know igneous rock is formed as a result of volcanic activity This type of rock is made up of minerals Find out more about minerals where igneous rocks form and what purposes they serve You may even have igneous rocks in your own home      **Unearthing Igneous Rocks** Willa Dee,1900-01-01 Igneous rocks form when molten rock cools and hardens Readers will learn how differences in composition and cooling form different types of igneous rocks Chapters include graphic organizers to help explain topics such as mountain formation volcanoes and how igneous rocks fit into the larger rock cycle The interactive eBook version of this book includes high interest information that expands on the topics covered in the print version These additional photographs videos and graphic organizers provided an enriched experience of the book      *Igneous Rocks* Richard Spilsbury,2015-07-15 It s hard to imagine the fiery orange lava that explodes from volcanoes as a hardened black mass of rock but that process is what forms igneous rocks one of the three kinds of rock that make up Earth s surface This important Earth science concept is explored in the text which also covers the different kinds of igneous rocks how to use their physical properties to identify them and what clues they offer about Earth s past The text also clues readers in to how we use this tough rock as a resource and how people living near volcanoes use their environment to their advantage Sidebars fact boxes and interesting photos supplement the text s information rich content      **The Interpretation of Igneous Rocks** Keith Gordon Cox,2014-09-01      *Rocks and Minerals Earth and Space Science Inquiry Handbook Discovering Science Through Inquiry* Teacher Created Material,2011 The Rocks and Minerals Inquiry Handbook is designed to guide students through exploration of scientific concepts and features background information for each topic hands on activities experiments and science journal pages The various student activities and experiments are inquiry based student focused and directly related to the focus of lessons provided in the corresponding kit kit not included      **Exploring Igneous Rocks** Marie Rogers,2021-12-15 Igneous rocks form when magma from Earth s core cools as it moves toward Earth s surface Most of Earth is made of igneous rock which is sometimes called fire rock Your readers will learn the different kinds of igneous rock how igneous rocks form and how igneous rocks fit into the rock cycle Captivating photographs show readers how beautiful igneous rocks are and fact boxes provide exciting additional information      **The Interpretation of Igneous Rocks** Keith Gordon Cox,John David Bell,Robert J. Pankhurst,1993      **Igneous Rocks** Rebecca Pettiford,2018-06-15 Explains how the

more than 600 different kinds of igneous rock all form from magma and where on Earth they can be found

## Embracing the Beat of Appearance: An Emotional Symphony within **Igneous Rocks Directed Reading Worksheet Answer**

In a global consumed by screens and the ceaseless chatter of quick interaction, the melodic elegance and emotional symphony produced by the published word frequently disappear in to the back ground, eclipsed by the constant sound and disturbances that permeate our lives. Nevertheless, situated within the pages of **Igneous Rocks Directed Reading Worksheet Answer** an enchanting literary treasure brimming with raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that fascinating masterpiece conducts visitors on an emotional journey, well unraveling the hidden melodies and profound affect resonating within each carefully constructed phrase. Within the depths of the touching examination, we will investigate the book is main harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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