

GRADE 9

LESSON 1: THE EARTH AS A SYSTEM

The Earth as a System

Introduction to Earth's System

The Earth is considered a system because it consists of multiple interconnected components working together. These components are grouped into four distinct spheres, each playing a crucial role in maintaining life and Earth's processes. These spheres are the *lithosphere*, *hydrosphere*, *biosphere*, and *atmosphere*.

Key Terms

- **System:** A group of interconnected components working together for a common purpose.
- **Lithosphere:** The Earth's solid crust and the upper part of the mantle, consisting of rocks, minerals, and soil.
- **Hydrosphere:** All the water on Earth, including oceans, rivers, lakes, glaciers, and underground water.
- **Atmosphere:** The layer of gases surrounding the Earth, primarily consisting of nitrogen and oxygen.
- **Biosphere:** All living organisms on Earth, including plants, animals, and microorganisms.



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Rebuilding the Natural Environment, Grade 10 Carla C. Johnson, Janet B. Walton, Erin E. Peters-Burton, 2022-05-23

What if you could challenge your tenth graders to think about how innovation can make the world a better place for humans while finding ways to sustain progress and conserve resources With this volume in the STEM Road Map Curriculum Series you can Rebuilding the Natural Environment outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students connect their existing knowledge about energy production and its effects on the natural environment to create innovations in renewable sources of energy based on research evidence Working in teams students will design an innovative way to meet society s energy needs and develop a pitch to market their innovation focusing on how the innovation will optimize human experiences while being mindful of the natural environment To support this goal students will do the following Understand several forms of renewable sustainable energy sources Apply their understanding of how alternators are used to generate electricity in lab experiments as well as explain how tools such as windmills and dams are used to operate them Describe how electricity is generated in photovoltaic cells Calculate the amount of electricity consumed by several household items and consider this consumption when determining the average monthly energy consumption of households around the world in comparison to U S households Understand how fossil fuels have been used in the production of electricity and the impact they have had on the world s economy humans quality of life and the earth Identify several hindrances to the creation of new energy sources as well as ideas to counter them List several factors that can be used to motivate people from all walks of life to use renewable and sustainable energies Create a fictional company that uses renewable energies The STEM Road Map Curriculum Series is anchored in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning In depth and flexible Rebuilding the Natural Environment can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach

Developing Core Literacy Proficiencies, Grade 6 Odell Education, 2016-07-19 The Developing Core Literacy Proficiencies program is an integrated set of English Language Arts Literacy units spanning grades 6 12 that provide student centered instruction on a set of literacy proficiencies at the heart of the Common Core State Standards CCSS Reading Closely for Textual Details Making Evidence Based Claims Making Evidence Based Claims about Literary Technique Grades 9 12 Researching to Deepen Understanding Building Evidence Based Arguments The program approaches literacy through the development of knowledge literacy skills and academic habits Throughout the activities students develop their literacy along these three paths in an integrated engaging and empowering way Knowledge The texts and topics students encounter in the program have been carefully selected to expose

them to rich and varied ideas and perspectives of cultural significance These texts not only equip students with key ideas for participating knowledgeably in the important discussions of our time but also contain the complexity of expression necessary for developing college and career ready literacy skills

Literacy Skills The program articulates and targets instruction and assessment on twenty CCSS aligned literacy skills ranging from making inferences to reflecting critically Students focus on this set of twenty skills throughout the year and program continually applying them in new and more sophisticated ways

Academic Habits The program articulates twelve academic habits for students to develop apply and extend as they progress through the sequence of instruction Instructional notes allow teachers to introduce and discuss academic habits such as preparing and completing tasks that are essential to students success in the classroom The program materials include a comprehensive set of instructional sequences teacher notes handouts assessments rubrics and graphic organizers designed to support students with a diversity of educational experiences and needs The integrated assessment system centered around the literacy skills and academic habits allows for the coherent evaluation of student literacy development over the course of the year and vertically across all grade levels

Handbook of Research on Science Learning Progressions Hui Jin,Duanli Yan,Joseph Krajcik,2024-07-30 Gathering contributions from leading scholars around the world this handbook offers a comprehensive resource on the most recent advances in research surrounding the theories methodologies and applications of science learning progressions Researchers and educators have used learning progressions to guide the design and alignment of curriculum instruction and assessment and to help students learn scientific knowledge and practices in a coherent and connected way across multiple years This handbook lays out the development and current state of research in this field across four sections learning progression theories and methodologies learning progressions to promote student learning teachers learning and use of learning progressions and new technology in learning progression research Featuring internationally recognized experts in learning progression research as well as up and coming voices the Handbook of Research on Science Learning Progressions offers a defining new resource for researchers teachers and teacher educators and curriculum and assessment developers in science education

Social Media in Education: Breakthroughs in Research and Practice Management Association, Information Resources,2018-06-04 In the digital age numerous technological tools are available to enhance educational practices When used effectively student engagement and mobile learning are significantly increased *Social Media in Education Breakthroughs in Research and Practice* contains a compendium of the latest academic material on the usage strategies and applications of social media in education today Including innovative studies on online networks social constructivism and collaborative learning this publication is an ideal source for educators professionals school administrators researchers and practitioners in the field of education

Children's Development During Social Transition Gregor Starc,Stevo Popovic,Juel Jarani,Maroje Sorić,2022-01-05

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