

# 4th Grade Science SOLs

## Study Guides & Review Worksheets

### Plant & Animal Structure

#### Term to Know

**Morphogenesis:** The process growth and change.

#### Parts of a Plant



• Roots: anchor and absorb water and nutrients.  
• Stems: move water and nutrients from the roots to the leaves.  
• Leaves: they produce energy through photosynthesis.  
• Flowers: they produce seeds.

#### Photosynthesis

Energy passes from each food through the process of photosynthesis.

They use green pigment called chlorophyll along with carbon dioxide, water, and sunlight to make food (energy).  
Oxygen is released during photosynthesis.

#### Pollution

Pollution is the process where pollution enters the system or enters to the point of being removed by wind, water, or animals to become sediment particles.



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### Ocean

#### Terms to Know

- Continental Shelf:** The shallow, gently sloping underwater area near the coast.
- Continental Slope:** A steep slope that connects the continental shelf to the Deep Sea.
- Continental Ridge:** A mound of sediment at the base of the continental slope.
- Mid-Ocean Ridge:** A place that rises on the ocean floor to a mountain of rock below the surface.
- Trench:** A very deep depression in the ocean floor. Deeper than 6 miles of water.

#### The Ocean Floor



#### Tides & Currents

Water is pulled higher and lower by the moon's gravity. Tides are caused by the gravitational pull off the moon and the sun.

Currents are streams that move off the coast. Currents are caused by wind and temperature differences in the water.

#### Marine Food Web



#### Benthos

Benthos are living organisms in the bottom layers of the ocean. Things that affect benthos include higher pH, oxygen levels, the depth of the water, melting icebergs, and the amount of sunlight from nearby stars.

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### We Climates

Climate is the weather of a given area averaged over at least 30 years. The following terms describe climate:

- Average winter • average summer
- Average humidity • Average rainfall

#### Winds

• These bring different weather conditions

#### Low Pressure

- strong winds
- strong weather



#### Rain

- fog, mist, and rain
- precipitation
- fog, mist, rain



#### Clouds

- clouds
- fog
- rain clouds
- rain or clouds and fog clouds



#### Extreme Weather

- heat, cold, wind, lightning, etc.
- lightning strikes
- lightning and thunder

#### Thunderstorms

- heat, cold, wind, lightning, etc.
- lightning strikes
- lightning and thunder

#### Hurricanes

- heat, cold, wind, lightning, etc.

- lightning and thunder

#### Tornadoes

- heat, cold, wind, lightning, etc.

- lightning and thunder

# Fourth Grade Science Guide

**AW Chickering**

#### **Fourth Grade Science Guide:**

*Elementary Science Guide* Bloomfield Public Schools (N.J.),1962      **Resources in Education** ,2001-04      *State Curriculum Guides for Science, Mathematics, and Modern Foreign Languages* Elizabeth Anne Putnam,Ralph P. Frazier,1960  
*State Curriculum Guides for Science, Mathematics, and Modern Foreign Languages, a Bibliography* ,1960      **Research in Education** ,1974      *Science Guide for Elementary Schools* ,1937      **Handbook on the Science of Early Literacy** Sonia Q. Cabell,Susan B. Neuman,Nicole Patton Terry,2024-04-25 Synthesizing the best current knowledge about early literacy this comprehensive handbook brings together leading researchers from multiple disciplines The volume identifies the instructional methods and areas of focus shown to be most effective for promoting young children's PreK 2 growth in reading writing oral language and the connections among them In 33 chapters the Handbook covers conceptual foundations development and instruction of both code and meaning related literacy skills professional development and family engagement supporting equity across populations and learning beyond traditional boundaries including digital and out of school contexts Highlighted throughout are issues around access to high quality instruction working with multilingual populations and data based decision making and interventions      **Report of the Board of Trustees of Public Schools of the City of Washington** District of Columbia. Board of Trustees of Public Schools,1876      *Readings in Science Methods, K-8* Eric Brunsell,2008 If you're teaching an introductory science education course in a college or university Readings in Science Methods K 8 with its blend of theory research and examples of best practices can serve as your only text your primary text or a supplemental text      *Science & Engineering Indicators* ,2006      **International Handbook of Research on Multicultural Science Education** Mary M. Atwater,2022-06-30 This handbook gathers in one volume the major research and scholarship related to multicultural science education that has developed since the field was named and established by Atwater in 1993 Culture is defined in this handbook as an integrated pattern of shared values beliefs languages worldviews behaviors artifacts knowledge and social and political relationships of a group of people in a particular place or time that the people use to understand or make meaning of their world each other and other groups of people and to transmit these to succeeding generations The research studies include both different kinds of qualitative and quantitative studies The chapters in this volume reflect differing ideas about culture and its impact on science learning and teaching in different K 14 contexts and policy issues Research findings about groups that are underrepresented in STEM in the United States and in other countries related to language issues and indigenous knowledge are included in this volume      *Handbook of Research on Science Education* Norman G. Lederman,Dana L. Zeidler,Judith S. Lederman,2023-03-17 Volume III of this landmark synthesis of research offers a comprehensive state of the art survey highlighting new and emerging research perspectives in science education Building on the foundations set in Volumes I and II Volume III provides a globally minded up to the minute survey of the science education research community and represents the diversity of the field Each chapter

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**The Impact of State and National Standards on K-12 Science Teaching** Dennis W. Sunal,Emmett L. Wright,2006-06-01 This book addresses the expectations toward the science standards of various stakeholders including students parents teachers administrators higher education science and science education faculty members politicians governmental and professional agencies and the business community This book also investigates how the science standards have been translated into practice at the K 12 school district level addressing issues around professional development curriculum assessment evaluation and accountability The fundamental questions to be addressed are 1 What is the response in terms of trends and patterns of the educational system to the introduction of the national and state science standards since the late 1980 s and 2 What is the impact of the introduction of the science standards on teachers classrooms and students

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*School Life ,1945* **Instructional Materials Bulletin** Iowa State Teachers College. Library,1962

*Your Science Classroom* M. Jenice Goldston,Laura Downey,2012-01-18 Your Science Classroom Becoming an Elementary Middle School Science Teacher by authors M Jenice Dee Goldston and Laura Downey is a core teaching methods textbook for use in elementary and middle school science methods courses Designed around a practical practice what you teach approach to methods instruction the text is based on current constructivist philosophy organized around 5E inquiry and guided by the National Science Education Teaching Standards

**Guidelines for School/business Partnerships in Science and Mathematics** Louis H. Blair,1990 *Instructional Materials Bulletin ,* **The Cambridge Handbook of the Learning Sciences** R. Keith Sawyer,2005-04-24 Learning sciences is an interdisciplinary field that studies teaching and learning The sciences of learning include cognitive science educational psychology computer science anthropology sociology neuroscience and other fields The Cambridge Handbook of the Learning Sciences first published in

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