

# 4<sup>th</sup> Grade Science SOLs

## Study Guides & Review Worksheets

### Plant & Animal Structure

#### Term to Know

- **Photosynthesis**, The process plants use to make food from sunlight and carbon dioxide.

#### Parts of a Plant



- **Roots**, Anchor the plant and absorb water and nutrients.
- **Stem**, Helps the plant stand upright and transport water and nutrients.
- **Leaves**, They perform photosynthesis.
- **Flowers**, They produce seeds.
- **Buds**, They develop into flowers.

#### Photosynthesis

Plants produce their own food through the process of photosynthesis. They use green pigment called **chlorophyll** along with carbon dioxide, water, and sunlight to produce food (sugar). Oxygen is released during photosynthesis.



#### Pollination

**Pollination** is the process where pollen is moved from the stamen of a flower to the pistil of another flower. It can be moved by wind, water, or animals. Some flowers attract pollinators.



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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 Rise**, A mound of sediment at the base of the continental slope.
- **Abyssal Plain**, A dark, flat area on the ocean floor that is thousands of feet below the ocean's surface.
- **Trench**, A narrow canyon in the ocean floor. Usually tens of thousands of feet deep.
- **Salinity**, The amount of salt dissolved in water.

#### The Ocean Floor



#### Tides & Currents

Tides are the regular rise and fall of sea levels. Tides are caused by the gravitational pull of the moon and the sun.

Ocean currents describe the motion of the water. Currents are caused by wind and temperature differences in the water.

#### Marine Food Web



#### Salinity

Salinity can be different in different parts of the ocean. Things that affect salinity include rates of evaporation, the depth of the water, melting icebergs, and the amount of runoff from nearby land.

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#### vs. Climate

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

- average wind
- average temperature
- average humidity
- average rainfall

#### Masses

These bring different weather conditions.

#### Low Pressure

- strong winds
- stormy weather



#### Clouds

#### Cumulonimbus

- big, fluffy, and dark bottoms
- thunderstorms
- hail, rain, wind



#### Cirrus

- feathery
- fair weather
- rain or snow will fall soon



#### Extreme Weather

#### Thunderstorms

- warm, humid conditions
- heavy rain
- lightning and thunder

#### Hurricanes

- over warm, tropical water
- winds at least 74 miles per hour

#### Tornadoes

- form from thunderstorms
- change of wind direction
- air begins to rotate

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# Tcap Science Study Guide 4th Grade

**Lauren Fletcher, Amy Konzelmann**

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the authors' names.

## Tcap Science Study Guide 4th Grade:

**Resources in Education**, 1998      **The Measure of Education** A. Paige Baker, 1995      **Teacher Evaluation** Anthony J. Shinkfield, D.L. Stufflebeam, 2012-12-06 Teacher Evaluation Guide to Professional Practice is organized around four dominant interrelated core issues professional standards a guide to applying the Joint Committee's Standards ten alternative models for the evaluation of teacher performance and an analysis of these selected models The book draws heavily on research and development conducted by the Federally funded national Center for Research on Educational Accountability and Teacher Evaluation CREATE The reader will come to grasp the essence of sound teacher evaluation and will be able to apply its principles facts ideas processes and procedures Finally the book invites and assists school professionals and other readers to examine the latest developments in teacher evaluation      Testing Our Children Monty Neill, 1997      **Setting Performance Standards** Gregory J. Cizek, 2012-03-22 Setting standards of performance is a ubiquitous task in education licensure certification and credentialing It is found in elementary schooling the professions commercial applications and governmental and private organizations It is one of the most complex controversial and vexing issues facing specialists and policy makers today This second edition solidifies Setting Performance Standards as the only book providing a comprehensive profile of both the issues and the how to methods that define this thorny field Four chapters have been removed 11 chapters have been added 2 chapters have major revisions and all chapters have been updated Comprehensive Part I provides a conceptual overview of standard setting and its overarching issues Part II provides practical how to information on the newest standard setting methods Part III provides information and advice on persistent and potential challenges in standard setting Practical Part II the heart of the book reviews 16 of the newest standard setting methods far more than any other book Expertise Most of the well known authors from the 1st edition return with authors of equal stature contributing new chapters      **Resources in Education**, 1993      *Tcap Success Strategies Science* Tcap Exam Secrets Test Prep, 2014-08-22 TCAP Success Strategies Science helps you ace the Tennessee Comprehensive Assessment Program without weeks and months of endless studying Our comprehensive TCAP Success Strategies Science 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 TCAP Success Strategies Science includes The 5 Secret Keys to TCAP 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 TCAP exam and much more      Roadmap to 4th Grade Science, Ohio Edition Sarah Taylor, Princeton Review (Firm), 2002-01-15 The Roadmap series works as a year long companion to earning higher grades as well as passing the high stakes 4th Grade Science Ohio Proficiency Test that is necessary for grade level promotion This book has been designed according to the specific standards set forth by the state of Ohio Now parents can work with their kids to both improve their grades and pass these important tests The experts at The Princeton Review have analyzed the OPT and this book provides the most up to date thoroughly researched practice possible TPR breaks the test down into individual skills and provides lessons modeled after the OPT to familiarize students with the test s structure while increasing their overall skill level The Princeton Review knows what it takes to succeed in the classroom and on tests This book includes strategies that are proven to raise student performance TPR provides Content review detailed lessons and practice exercises modeled after the actual exam Test taking skills and science essentials such as reading graphs conducting experiments using simple machines and understanding the metric system 2 complete practice OPTs      New York State Grade 4 Elementary-Level Science Test Joyce Thornton Barry, Kathleen Cahill, 2007-08-01 This brand new manual prepares fourth grade students in New York State to do well on the required Elementary Level Science Test The book presents four study units The Living Environment The Physical Sciences Process Skills and Performance Assessment The Living Environment unit covers plants animals genetics health topics ecology and humans in their environment The Physical Sciences unit introduces students to the basics of matter energy magnetism gravity simple machines astronomy and earth science Process Skills introduces children to the concept of scientific method and tools and reviews measuring processes such as graphing and analyzing data The Performance Assessment unit deals with scientific activities appropriate to the fourth grade level The authors include practice and review questions with answers and two model tests with answers and explanations      Tennessee TCAP Success Grade 4 Science , 2022-08      Spectrum Science, Grade 4 Spectrum, 2014-08-15 4th Grade Science Book for kids ages 9 10 Support your child s educational journey with Spectrum s 4th Grade Science Workbook that teaches basic science skills to 4th grade students 4th Grade Science Workbooks are a great way for students to learn essential science skills surrounding space life science Earth science science and technology and more through a variety of activities that are both fun AND educational Why You ll Love This Science Book Engaging and educational activities Microscopic marvels Planetary weather and The end of the dinosaurs are a few of the fascinating lessons that help inspire learning into your child s curriculum Testing progress along the way Chapter reviews a mid test and a final test are included to test student knowledge An answer key is included in the back of the 4th grade book to track your child s progress along the way before moving on to new and exciting lessons Practically sized for every activity The 144 page 4th grade workbook is sized at about 8 1 2 inches x 11 inches giving your child plenty of space to complete each exercise About Spectrum For more than 20 years Spectrum has provided solutions for parents who want to help their children get ahead and for teachers who want their students to meet

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**Science, Grade 4 Interactive Workbook and Tcap Practice Consumable** Hmh,2009-01-05      *NJ Ask: Science, Grade 4* Lauren Fletcher,Amy Konzelmann,2012-02-24 All fourth grade students in NJ are required to pass the NJ ASK Assessment of Skills and Knowledge Grade 4 Science assessment test REA s test prep gives fourth graders all the information they need to succeed on this important high stakes exam Completely aligned with the core curriculum standards of the NJ Department of Education the test prep includes a student friendly targeted review of the science skills tested on the exam including life science physical science and earth science Our focused lessons appeal to students at all learning levels Each lesson explains science topics in language suitable for the fourth grade level while numerous drills strengthen abilities Color icons throughout the book highlight important questions and study tips The book also includes two full length practice tests with detailed explanations of answers that allow students to test their knowledge and focus on areas in need of improvement

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