

4th Grade Science SOLs

Study Guides & Review Worksheets

Plant & Animal Structure

Term to Know

- **Photosynthesis**, The process plants use to produce oxygen

Parts of a Plant



- **Stem**, Anchor and absorb nutrients
- **Stem**, helps water travel up and other things travel down
- **Leaves**, They perform photosynthesis
- **Flowers**, They produce seeds
- **Roots**, They anchor the plant

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. Flowers attract pollinators.



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

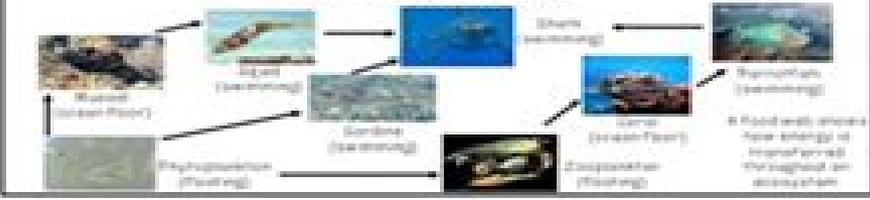


Tides & Currents

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 created 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.

Weather 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

Weather Systems

These bring different weather conditions.

Low Pressure

- strong winds
- stormy weather



Clouds

Cumulonimbus

- big, fluffy, and dark bottoms
- thunderstorms
- hot, 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 of at least 74 miles per hour

Tornadoes

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

Grade 1 physical Science Study Guide

Jane Parks Gardner



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Physical Science, 2008 **Physical science**, 2007 **Physics Handbook & Study Guide Grade 11-12 IEB** Kevin Smith, 2024-02-01 A comprehensive summary of Grade 11 12 Physics Simple logical summaries with example exam questions and work through solutions The book covers the fundamentals of Grade 11 12 Physics and complements the material in any class text **Science & Technology Study Guide B With Directed Reading Worksheets Physical Science Grade 8** Holt Rinehart and Winston, Hrw, 2007 **Science Note-Taking Reading Study Guide Physical Science Grade 8**, 2006-03-14 *Science & Technology, Grade 8 Interactive Reader Study Guide Physical Science* Hrw, 2007 **Study and Master Physical Sciences Grade 11 CAPS Teacher's File** Karin H. Kelder, 2012-09-11 Study Master Physical Sciences Grade 11 has been especially developed by an experienced author team for the Curriculum and Assessment Policy Statement CAPS This new and easy to use course helps learners to master essential content and skills in Physical Sciences The innovative Teacher's File includes guidance on the teaching of each lesson for the year answers to all activities in the Learner's Book assessment guidelines photocopiable templates and resources for the teacher *Resources in Education*, 1997 **Teaching Adolescents With Disabilities:** Donald D. Deshler, Jean B. Schumaker, 2005-11-02 Get the blueprint for building bridges that leave no learner behind Teaching Adolescents With Disabilities is the gold standard for proven methods of teaching students with disabilities at the secondary level Developed by one of the most respected research teams in special education this resource provides teachers and administrators with detailed and practical knowledge of research validated practices that have been effective for adolescents with disabilities Aligned with current Individuals with Disabilities Acts IDEA and No Child Left Behind NCLB requirements these proven strategies can break down the barriers to academic success while opening doors to the complex curriculum of secondary schools Donald D Deshler and Jean B Schumaker are highly attuned to these students special needs and the skills and methods required to teach them effectively including Practical planning advice interventions and learning strategies Tips for leveraging technology to promote student success Strategies for planning transition beyond high school Real life examples and illustrations to facilitate implementation Methods for designing instructional materials that maximize curriculum access and student achievement With this resource practitioners can gain the in depth knowledge that will enable them to close the performance gap for middle and high school students with disabilities Study & Master Physical Sciences Grade 10 Study Guide Karin Kelder, Weedaad Nasiep, 2007-09 By working through this Study Guide you will definitely improve your results whether you are working towards being the top performer in your class or whether you regularly break out in a sweat when you have to present your test scores or school report at home Experienced educators and examiners have put together this marvellous resource that provides you with Explanations activities and exercises and their answers for each knowledge area Tips on how to study science and to prepare for all kinds of formal assessment Additional information on science skills rules and conventions Exemplar examination papers for you to

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web exercise 2 a are the four daughter cells of meiosis genetically identical or different from one another explain your answer describe the daughter cells of your meiosis model what color and how many of each color beads were present in each of the four daughter cells the four daughter cells of meiosis are not genetically identical

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procedure answer all questions in your journals please 1 create four homologous chromosomes using the red beads for the paternal chromosome and the yellow beads for the maternal chromosome

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web after completing this lab exercise you should be able to identify and describe the stages of the cell cycle mitosis and meiosis recognizing the events that occur during each stage distinguish between mitosis and cytokinesis as they take place in

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