

## 7<sup>th</sup> Grade Study Guide: Cells

Answer the following questions. Your Test is Friday, January 25<sup>th</sup>

1. What is a cell?
  - a. The smallest and most basic unit of life
2. What are the three parts to the cell theory?
  - a. All living things are composed of cells.
  - b. Cells are the most basic unit of living things
  - c. All cells come from existing cells
3. Who is Robert Hooke?
  - a. The scientist who studied cork and discovered tiny squares on the dead piece of cork which he called "cells"
4. What is a vacuole?
  - a. An organelle found in both plant and animal cells that stores food, water, and minerals. Plant cells have large vacuoles.
5. What is the function of a ribosome?
  - a. A ribosomes assemble the protein of in a cell
6. What is the function of a cell wall?
  - a. Protection and support
7. What is the function of a nucleus?
  - a. The nucleus directs all activities in the cell and contains the cells genetic material (DNA)
8. What is a nuclear membrane?
  - a. The boundary around the nucleus
9. What is cytoplasm?
  - a. The thick jelly like substance in the cell that holds the organelles in place.
10. What is the function of mitochondria?
  - a. Mitochondria break down food and release energy for the cell.
11. What is the difference between smooth and rough Endoplasmic Reticulum?
  - a. The smooth ER does not contain ribosomes, the rough ER does.
12. How is the vacuole in a plant cell different from the vacuole in an animal cell?
  - a. The vacuole in a plant is much larger than the vacuole in an animal cell.
13. What is the function of a cell membrane?
  - a. The cell membrane surrounds the cell and allows certain materials to come into and leave out of the cell.
14. Do animal cells have a cell wall?
  - a. No
15. Do animal cells have chloroplasts?
  - a. No
16. What is the function of chloroplasts?
  - a. Chloroplasts use sunlight to create energy for the plant cell

# Cells 7th Grade Science Study Guide

**Scott C. Dulebohn**



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*Curriculum Design for Writing Instruction* Kathy Tuchman Glass, 2004-12-09 Replete with strategies examples and reproducibles this guide is invaluable for any teacher who wants to boost student achievement in writing for any subject or grade level      **Teaching Vocabulary in All Classrooms** Camille L. Z. Blachowicz, Peter Fisher, 2002 Updated with new strategies ideas and websites this research based book features a wealth of ideas for developing vocabulary in all content areas Many of the techniques explored in this book have the broader goal of enhancing the acquisition of content knowledge The authors do an exceptional job of combining a strong research base with field tested strategies for developing vocabulary in any K 12 classroom Chapter topics include learning vocabulary from context integrating vocabulary and reading strategy instruction learning vocabulary in literature based reading instruction learning vocabulary in the content areas using dictionaries and other references assessing vocabulary knowledge vocabulary instruction for learners with special needs vocabulary and spelling instruction using structural analysis and wordplay in the classroom For elementary school teachers of reading language arts social studies science and remedial education      Science Indiana Standards Manager Grade 6 Mcdougal Littell, 2004      **Curriculum Development Library** ,1980      **Resources in Education** ,1997      **State Curriculum Frameworks in Mathematics and Science** Rolf K. Blank, Ellen M. Pechman, 1995 A majority of states are now involved in developing revising and implementing state frameworks in mathematics science and other core subjects The Council of Chief State School Officers completed a one year study of 60 current state curriculum frameworks in mathematics and science The purposes of this study were to define and describe state mathematics and science curriculum frameworks evaluate the role of frameworks in systemic reform and assist states with development of new frameworks Chapters in this report reflect key aspects of the design of the study including 1 a survey of states to identify frameworks and collect information about state context 2 a content analysis of key elements of the frameworks using definitions and categories developed in the study and 3 a qualitative review of specific aspects of recent frameworks by teams of experts The value of frameworks is as follows one half of frameworks link content to teacher professional development frameworks can provide a rationale for use of technology and tools in classrooms frameworks can help explain an approach to systemic reform and frameworks can assist schools in evaluating curriculum organization and resources Appendices include Elements for Analyzing State Curriculum Frameworks Definitions of Categories and Concepts for Conceptual Mapping of State Frameworks Questions for a Qualitative Analysis of State Frameworks in Mathematics and Science and Sample Vignettes

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