

Science Olympiad Study Guide

The test will be a mix of multiple-choice and free-response questions. It will cover five sections: Biology, Chemistry, Physics, Inquiry, and Earth/Space Science. There will be 20 questions from each section. Each section will begin with the multiple choice questions, followed by several free-response questions. **You are encouraged to bring a calculator - any type is acceptable, but if it is a programmable calculator, you are not allowed to use any self-programmed functions.** If you do not have one, we will lend you one from the school.

Don't worry if you can't answer every question! **We encourage you to prioritize sections that you are more passionate about.** Furthermore, there is **no guessing penalty**, so try and answer as many as you can. You can make the team without finishing the test, and we want to be upfront about the structure and time of the test so that students can use the test-taking strategy that benefits them the most.

The test will be primarily made of multiple choice questions with an expectation of having baseline scientific knowledge. We will not have obscure trivia questions, and we will give you all the tools, tables, and constants you need to answer the questions. For instance, we will not ask you to identify the name of a fossil. We are testing for your problem-solving ability and your application of scientific concepts, not your raw trivia knowledge.

You may bring ONE double sided 8.5" x 11" sheet of paper with information to help you on the test. You will have 50 minutes to complete as much of the test as possible.

Biology

1. Cell Structure and Function
 - a. Prokaryotic Cells
 - b. Eukaryotic Cells
 - c. Nucleus
 - d. Organelles
2. Cell Reproduction
 - a. The Cell Cycle
 - b. Mitosis
 - c. Cytokinesis
 - d. Meiosis
3. Genetics
 - a. Alleles
 - b. Punnett Squares
 - c. DNA / RNA
4. Body Systems
5. Evolution
 - a. Factors Bringing about Change
 - b. Examples of Natural Selection

Chemistry Olympiad Study Guide

Amar Bhutani



Chemistry Olympiad Study Guide:

Chemistry Olympiad Study Guide Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Chemistry Olympiad Study Guide**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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Chemistry Olympiad Study Guide Introduction

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