

# 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

# Science Olympiad Study Guide

**M Tight**



## **Science Olympiad Study Guide:**

## The Enigmatic Realm of **Science Olympiad Study Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Science Olympiad Study Guide** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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