

## TEAS Preparation Guide

The Test for Essential Academic Skills (TEAS) is an entrance exam created by [ATI](#) and used by Germanna Community College to determine a student's readiness for the health sciences programs. The exam has four sections: reading, math, science, and English language usage. This handout will discuss each section of the TEAS Version 7 and provide resources to help prepare for the exam.

You can navigate to specific sections of this handout by clicking the links below.

[Exam Overview](#): pg. 1

Sections of the TEAS Exam

[Reading](#): pg. 1

[Math](#): pg. 2

[Science](#): pg. 3

[English and Language Usage](#): pg.5

[Free Comprehensive TEAS Practice Exams](#): pg. 5

### Exam Overview

Students must complete each section of the exam during one testing session. Each section of the exam is timed separately and must be completed before moving onto the next section. There are a total of 170 questions which must be completed in 209 minutes. Students have the ability to return to specific questions within the section in which they are currently working. Once that section is completed and closed, they will not be able to return to it. Students have access to a basic on-screen calculator for the math and science sections of the exam. Additional testing requirements and steps on how to schedule the TEAS can be found at <https://www.germannna.edu/testing/nursing-health-testing/>.

### Sections of the TEAS Exam

#### Reading

The reading section of the exam contains 45 reading questions that must be completed in 55 minutes. Students must:

- Identify the main idea and supporting details
- Analyze information from visuals such as graphs and charts
- Use context clues to determine word meanings
- Decipher between fact and opinion

- Summarize part of a passage
- Make inferences based on the context of a passage

*Helpful Academic Resources*

- [Mometrix - Reading Practice Test](#)
- [Test Prep Review – Reading Comprehension Practice](#)
- [Lumen Learning – Main Ideas and Supporting Details](#)
- [Khan Academy – Using context clues to figure out new words](#)
- [McGraw Hill – Fact and Opinion Exercise](#)
- [Lumen Learning – Making Inferences](#)

**Math**

There are 38 questions in the math section of the exam which must be completed in 57 minutes. Students are expected to:

- Answer numerical or word problems that require the addition, subtraction, multiplication, and division of whole numbers, fractions, and decimals
- Convert between decimals, fractions, and percents
- Set up and solve proportions
- Perform general unit conversion, such as milliliters to ounces
- Convert between the 12-hour clock and military time as well as between Roman numerals and numbers
- Complete basic algebra problems
- Solve real world problems involving ratios, rates of change, expressions, equalities, and inequalities
- Calculate geometric quantities
- Interpret data from charts, tables, and graphs

*ACE Helpful Handouts*

- [Order of Operations and Signed Numbers](#)
- [Divisibility Rules](#)
- [Squares, Cubes, and Their Roots](#)
- [Radicals and Fractional Exponents](#)
- [Exponents, Radicals, and Scientific Notation](#)
- [Introduction to Fractions](#)
- [Decimals, Fractions and Percents](#)
- [Metric Conversion](#)

- [Nursing Conversions and Formulas](#)
- [Resources for Reviewing Basic Math Skills](#)
- [Introduction to Word Problems](#)

*Helpful Academic Resources*

- [Mometrix – Math Practice](#)
- [Pre-Algebra Tutorials](#)
- [Khan Academy – Algebra Basics](#)
- [The Academic Center for Excellence's Math Course Resources Webpage](#)

**Science**

The Science section of the TEAS exam contains four subsections: Chemistry, Biology, Anatomy & Physiology, and Scientific Reasoning. There are 50 questions in the science section which must be completed in 60 minutes.

Chemistry

This subsection tests for an understanding of several chemical processes and terminology, including:

- Temperature
- Atomic structure and the periodic table
- Chemical equation terminology
- Changes of matter
- Concepts of acids and bases
- Solution properties
- Conditions that affect chemical reactions

*ACE Helpful Handouts*

- [Color Periodic Table](#)
- [Aqueous Reactions](#)
- [Balancing Chemical Equations](#)
- [Chemical Conversions and Problems](#)
- [Conversions and Dimensional Analysis](#)
- [Intermolecular Forces](#)
- [Naming Compounds](#)
- [Oxidation-Reduction Reactions](#)
- [Polyatomic Ion List](#)

- [Significant Figure Rules](#)

*Helpful Academic Resources*

- [Dynamic Period Table](#)
- [Science Geek – Interactive Chemistry Quizzes](#)
- [Khan Academy – Chemistry](#)

Biology

This subsection covers the following biology concepts:

- Understanding and describing cell structure and function
- Organization of cells
- Relationship between protein structure and DNA
- Applying concepts under Mendel’s Laws of Inheritance
- Role of macro and microorganisms

*ACE Helpful Handouts*

- [Bio Molecules](#)
- [Mitosis vs. Meiosis](#)
- [Photosynthesis](#)
- [Cellular Respiration](#)

*Helpful Academic Resources*

- [Khan Academy – Biology](#)
- [Science Geek – Interactive Biology](#)

Anatomy & Physiology

This subsection covers the following anatomy & physiology concepts:

- Terminology
- Cytology and histology
- Anatomical structures
- Anatomical systems

*Helpful Academic Resources*

- [Get Body Smart](#)
- [Khan Academy – Anatomy and Physiology](#)
- [Purpose Games – Medicine](#)
- [San Diego Mesa College – Human Anatomy](#)

- [University of Minnesota – Web Anatomy](#)
- [Anatomy Arcade – Whack a Bone](#)

### Scientific Reasoning

This subsection covers the following scientific reasoning concepts:

- Usage of basic scientific tools and measurements
- Predicting relationships between processes, events, and objects
- Applying the Scientific Method

### *Helpful Academic Resources*

- [Pearson - Critical Thinking and Clinical Reasoning](#)
- [Khan Academy – Scientific Method](#)

### **English and Language Usage**

The English Language Usage section contains 37 questions which must be completed in 37 minutes. This subsection involves making predictions about passages and tests knowledge of sentence structure and grammatical skills. Students must:

- Use standard English spelling and sentence structure
- Determine the meaning of words based on their parts
- Use grammar to improve clarity

### *ACE Helpful Handouts*

- [Comma Rules](#)
- [Verb Tenses](#)
- [Guide to English Grammar](#)
- [Guide to Common Medical Terminology](#)
- [Helpful Resources for ESL Nursing Students](#)

### *Helpful Academic Resources*

- [Mometrix – English & Language Usage Practice](#)

### **Free Comprehensive TEAS Practice Exams**

The web pages below link to free practice exams for the TEAS V7 exam. Some practice exams are available in an online quiz format. Others are available in video format and include worked-out solutions and reasoning.

- [Brainfuse](#) offers TEAS practice tests by subject in the SkillSurfer Academic Tool

- [NurseHub TEAS Practice Tests by Subject](#)
- [Prenursing Smarter – TEAS Practice test](#)
- [Smart Edition Academy – TEAS Practice test](#)
- [Mometrix Test Preparation TEAS Practice Videos](#)
- [Mometrix Test Preparation TEAS Practice Test and Study Guides](#)