# OAT Organic Chemistry - Core Concept Cheat Sheet

## 01: Introduction To OAT Organic Chemistry

### Key OAT Terms
- **OAT**: Optometry Admission Test is a standardized exam required to gain admission to optometry school.
- **Composite Score**: A test-taker’s overall OAT score.
- **Passage-Based Question**: Are part of the Reading Comprehension portion of the test. The questions relate to information in an accompanying passage as well as your own knowledge.
- **OAT Composition**: Survey of Natural Science, Reading Comprehension, Physics and Quantitative Reasoning.
- **Deep Concept Mastery**: A method that engages multiple styles of learning, also referred to as multimodal learning. Facilitates detailed mastery, quickly and with high retention.
- **Cheat Sheet**: A brief outline summarizing key terms and concepts, such as this one.
- **Flash Cards**: Index cards with questions written on one side and a brief answer written on the reverse.
- **Guessing Penalty**: No penalty for guessing wrong.
- **AOA**: American Optometric Association, information on careers in optometry.
- **ASCO**: Association of Schools and Colleges of Optometry, information on OAT registration and application to schools of optometry.

## OAT

### Registration
You may take the OAT almost any day of the year and it administered by Prometric at their test locations. You may register: on line, through your college advisor or paper application.

### Test Sections
Survey of the Natural Sciences, 90 min., 100 Items
- **Reading Comprehension**, 50 min., 40 Items
- **Physics Test**, 50 min. 40 Items
- **Quantitative Reasoning**, 45 min., 40 Items

### Test-Preparation Strategies
- Manage your time: set a study and test practice schedule and then stick with it.
- Study only the Organic Chemistry topics tested.
- Spend core study hours on weak areas only.
- Translate concepts into formats easy for you to remember, e.g. draw structures from names.
- Generalize concepts, e.g. learn reactive groups and their major reaction mechanisms.
- Get answers to anything not absolutely clear.
- Practice: problems and tests from many different sources.

### Test-Taking Strategies
- Know The Test its layout and have established a timing strategy before you take the actual exam.
- Plan Your Attack
- Build test taking focus so you are not distracted in the new environment. If distracted, pull back to regain focus.
- **Practice Smart Test Taking:**
  - Zoom In On The Answer,
  - Think of the answer first, and then scan the choices.
  - Beware the familiar and the absolute.
  - Deal with similar or opposite answer choices.
  - Use Educated Guessing.
  - Never leave a question blank. Guess instead.
  - Eliminate incorrect answers to improve guessing odds.

## OAT Natural Science: Organic Chemistry

- Biology
- General Chemistry
- Natural Sciences
- Organic Chemistry
- Biological Chemistry
- Mechanisms
- Properties of Molecules
- Organic Analysis
- Acid-Base Chemistry
- Reactions and Synthesis
- Stereochemistry
- Nomenclature

- Subject mater focus areas are shown in this image.
- To master your weak areas use the Rapid Learning multimodal learning tutorials. Remember to listen to the mp3 recordings as a supplement.

## Multimodal Learning
Use as many of your learning senses as you can for rapid mastery, deep learning and maximal retention of material.

The most effective way to master chemistry is to engage all the areas of your learning mind.

How to Use This Cheat Sheet: These are the keys related this topic. Try to read through it carefully twice then recite it out on a blank sheet of paper. Review it again before the exams.