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## “MCAT Checklist”

*Learn what's on the MCAT and how to tackle it.*

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The *MCAT Checklist* is a checklist of the major topics covered on the MCAT Test. We have broken up our checklist based on the sections of the MCAT exam.

The best way to use the *MCAT Checklist* is to print it off and use it as a real checklist along with any test prep materials you may already have (or may purchase in the future). You'll notice that the headings include the phrases; Phase I, Phase II, and Phase III. These headings correspond with the specific activities you should do to prepare for the exam.

We've listed out what we consider to be Phase I, Phase II, and Phase III activities here:

Phase I activities include learning the basics.

This might consist of reading and take notes on the particular topics. If you cannot read and take notes on topics (like for example, in the reading

comprehension section of many exams), then read through the instructions for that section and familiarize yourself on the topics covered. When you've learned the basics, place a checkmark under Phase I for that particular concept.

Phase II activities include learning the details.

If you have a workbook to study from consider that a Phase II activity. Flashcards could also fit under Phase II activities. If you do not intend to buy flashcards, then you may want to create some of your own on the more difficult concepts.

If you cannot distinguish between the basics and the details for you subject matter, then just re-view your test prep material (no use getting hung up before you even start).

Phase III activities include answering practice questions.

Most test prep books contain practice questions that you may work through. And if you are going to write an essay, then you need to write a few essays for practice!

So please print off the following pages, and start checking off the concepts as you learn them.

# MCAT Biological Sciences

<u>Concept</u>	<u>Phase I</u>	<u>Phase II</u>	<u>Phase III</u>
<i>Biology</i>			
• Enzymes and Metabolism			
• DNA and Protein Synthesis			
• Eukaryotes			
• General and Specific Eukaryotic Cells			
• Genetics			
• Microbiology			
• Nervous and Endocrine Systems			
• Immune System			
• Reproductive System			
• Muscle System			
• Skeletal System			
• Digestive System			
• Excretory System			
• Respiratory Systems			
• Evolution			
<i>Organic Chemistry</i>			
• Covalent Bond			
• Molecular Structure			
• Separations and Purifications			
• Oxygen Containing Compounds			
• Hydrocarbons			
• Amines			
• Biological Molecules			

# MCAT Physical Sciences

<u>Concept</u>	<u>Phase I</u>	<u>Phase II</u>	<u>Phase III</u>
<i>Chemistry</i>			
• Electronic structure and periodic table			
• Bonding			
• Phases and phase equilibria			
• Stoichiometry			
• Thermodynamics and Thermochemistry			
• Kinetics and Equilibrium			
• Solution Chemistry			
• Acids/Basis			
• Electrochemistry			
<i>Physics</i>			
• Units, Graphing, and Error Analysis			
• Translational Motion			
• Force, Motion, Gravity			
• Equilibrium and Momentum			
• Work and Energy			
• Waves and Periodic Motion			
• Sound			
• Fluids and Solids			
• Electrostatics and Electromagnetism			
• Electronic Circuit Elements			
• Light and Geometrical Optics			
• Atomic and Nuclear Structure			

# MCAT Verbal Reasoning

<u>Concept</u>	<u>Phase I</u>	<u>Phase II</u>	<u>Phase III</u>
<i>Comprehension</i>			
• Identify the thesis			
• Identify supporting evidence			
• Identify background knowledge			
• Identify significant terminology			
• Recognize paraphrasing			
• Identify relationships			
• Identify assumptions			
<i>Evaluation</i>			
• Judge argument			
• Judge credibility			
• Judge conclusion			
• Judge evidence			
• Judge claims			
• Judge relevance			
<i>Application</i>			
• Predict a result			
• Problem solving			
• Identify probable cause			
• Determine implications			
• Identify a theory			

# MCAT Verbal Reasoning *(continued)*

<i>Incorporation</i>			
• Judge new evidence			
• Challenge hypothesis			
• Modify conclusion			
• Alternative hypothesis			

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