

Name:

Date:

## About Your Study Plan

This Study Plan comprises the full spectrum of materials and resources available to a candidate. We encourage you to use the recommended resources to target preparation to your needs and goals.

There will be hyperlinks throughout this document. Please make sure that you visit the relevant pages to access all of the resources.

Your commitment to great teaching begins here. Your efforts will not only help you pass the test, but will also prepare you to become a successful teacher.

## How to study:

ABCTE is committed to making sure you are the best possible teacher.

We will provide you with study tips to get ready for the exam and both the content and resources to review this material. It is your job to commit to preparing and stay dedicated while studying.

Think of the Snapshot below as an overview for what you need to know. For more detail in each topic, review the exam [standards](#). The ABCTE exams are based on this blueprint, so consider this a syllabus for what you want to study.

## ABCTE Teacher Forums:

Become a part of the ABCTE community by participating in our Teacher Forums today!

You can discuss the program, ask questions, and learn what other candidates have done to succeed in their classrooms.

<http://www.abcte.org/forums>



## Multiple Subject Exam Snapshot

<b>Time Allowed</b>	240 minutes	
<b>Format</b>	Multiple-choice	
<b>Number of Questions</b>	150	
<b>On-Screen Exhibits</b>	None	
<b>Passing Score</b>	Proficient: 285 Distinguished: 325	(The number of questions answered correctly is converted to a scaled score ranging from 0 to 500.)
<b>Exam Summary</b>	<b>Content Domains</b>	<b>Approximate Percentage of Examination</b>
	Reading and English Language Arts	32%
	History and Social Science	20%
	Mathematics	28%
	Science	20%

## ABOUT THIS EXAM

The American Board for Certification of Teacher Excellence believes that highly skilled teachers should possess a comprehensive body of knowledge that is research-based and promotes student achievement. The Multiple Subject Exam is designed for prospective teachers of students in grades K-6. The topics assessed are reading and English language arts, history and social science, mathematics, and science. Use of a calculator is not permitted.

## How to use ABCTE Practice Tests

If you have chosen to use our practice tests, you may have already used the quizzes to get a better idea of where your strengths and weaknesses are. There are two full-length exams that we would suggest you use in *testing mode* as a mid-term and final to work on your timing and endurance. You can use them again in *explore mode* to identify distractors.

# ABCTE's Standards Stepwise Method

## The right way to get started: using the Standards as your syllabus

Your Self Assessment is a summary of the standards; by doing it, you have identified which ones need the most attention. The Standards are your study lifeline; you can find them on your MyAccount page. Throughout the course of your study you will learn all of them. How to begin? Here is ABCTE's Standards Stepwise method:

**1 Approach in bite-sized chunks:** don't be overwhelmed or paralyzed by how many standards there are, simply pick a topic of a domain and get started.

**2 Define the terms:** take the first three items in the topic and make sure you know all the terms. Look up any you do not recognize. After all, you cannot answer a question definitively if you don't even know the terms.

## Domain 1: Instructional Design

### Topic 1: Selects, Organizes, Plans, and Designs Content

1.1.01	Writes measurable objectives for both individual or classroom performance based on student data and subject matter.
	Guides curricular planning (e.g., content clusters, instructional methods, learning activities and assessment
1.1.04	Substantiates or illustrates ideas.
1.1.05	Juxtaposes examples that differ in many ways but are the same in defining features, so that students can generalize to new examples and learn to discriminate same/different when faced with new examples.
1.1.06	Plans lessons, depending on size and content of unit, so that important ideas or skills are studied on several occasions rather than all at once.
1.1.07	Selects lessons

Guides **curricular planning** (e.g., **content clusters**, instructional methods, learning activities and assessment tools) based on goals of the instruction.

**3 Use the required resources** in your Study Plan or a broad survey text to refresh your memory on the topic.

**4 Use the appropriate recommended resources** to probe deeper if you need better understanding. Use the Standards to target the sections you need to read.

**5 Your Notes:** go to the resources section of ABCTE.org and identify additional resources to use as needed. Use the Forums to see what other people are using.

**6 Check for understanding and reflect:** think about how you would use this in a classroom or how you would teach the subject. Use your quizzes to check for understanding and move on.

**7 Wash, rinse, and repeat:** once you finish a chunk of three, go back and attack the next three.

**PROFESSIONAL TEACHING KNOWLEDGE STUDY PLAN**

for  Area of Study

AMERICAN BOARD  
for Certification of Teacher Excellence

**The Study Plan:**  
Your study plan includes direction on how to use ABCTE's resources. We also include recommended resources to aid in your mastery. The full description of these can always be found at: [www.abcte.org/teach/pskm-preparation](http://www.abcte.org/teach/pskm-preparation). You should also rate these resources whenever possible.  
This plan was designed for a 9 month period (4 months for Professional Teaching Knowledge (PTK); 4 months for the subject matter; 2 weeks to take each test) in which most people are able to complete the program. Many have completed the program in a shorter amount of time. Your advisor will provide you with a more efficient, customized plan based on your needs.

Area of Study	Required Resource	Recommended Resource	(Time)
<input type="checkbox"/> Instructional Delivery <input type="checkbox"/> Communicating effectively <input type="checkbox"/> Presents clear and focused instruction <input type="checkbox"/> Effective questioning techniques <input type="checkbox"/> Makes efficient use of learning time <input type="checkbox"/> Applications <input type="checkbox"/> Research Strategies	<input type="checkbox"/> Review the specific PTK standard <a href="http://www.abcte.org/teach/pskm-preparation">http://www.abcte.org/teach/pskm-preparation</a> The corresponding Prepare to Teach Workshops can be found at: <a href="http://www.abcte.org/prepare-to-teach">http://www.abcte.org/prepare-to-teach</a> The Characteristics of Successful Teachers <input type="checkbox"/> Characteristics 1- 8 <input type="checkbox"/> Characteristics 9 - 16 <input type="checkbox"/> VIDEO CASE STUDIES: Characteristics of Successful Teachers (13:57) Pedagogy and Instructional Design <input type="checkbox"/> How Students Learn <input type="checkbox"/> Whole Group Strategies Part 1 <input type="checkbox"/> Whole Group Strategies Part 2 <input type="checkbox"/> Small Group Strategies and Individual Instruction <input type="checkbox"/> Lesson Closure <input type="checkbox"/> VIDEO CASE STUDIES: Pedagogy and Instructional Design (14:58)	<input type="checkbox"/> Web Resources <input type="checkbox"/> <a href="http://www.abcte.org/teach/pskm-preparation">www.abcte.org/teach/pskm-preparation</a> <input type="checkbox"/> <a href="http://www.abcte.org/prepare-to-teach">www.abcte.org/prepare-to-teach</a> <input type="checkbox"/> <a href="http://www.abcte.org/glossary-of-education-terms">Glossary of Education Terms</a> <input type="checkbox"/> Books <input type="checkbox"/> <a href="http://www.abcte.org/teach/pskm-preparation">www.abcte.org/teach/pskm-preparation</a> <input type="checkbox"/> <a href="http://www.abcte.org/prepare-to-teach">www.abcte.org/prepare-to-teach</a> <input type="checkbox"/> <a href="http://www.abcte.org/prepare-to-teach">www.abcte.org/prepare-to-teach</a> <input type="checkbox"/> <a href="http://www.abcte.org/prepare-to-teach">www.abcte.org/prepare-to-teach</a> <input type="checkbox"/> <a href="http://www.abcte.org/prepare-to-teach">www.abcte.org/prepare-to-teach</a> <input type="checkbox"/> These and other resources can be found at: <a href="http://www.abcte.org/teach/pskm-preparation">http://www.abcte.org/teach/pskm-preparation</a>	

Your Notes:

Note: The resources recommended outside of the ABCTE program are often freely accessible online or can be found in your library. To ease your search we have hyperlinked them.

1-877-668-2228 • [www.abcte.org](http://www.abcte.org) • [advisor@abcte.org](mailto:advisor@abcte.org)

### Have a Plan

It is important to have a plan of attack to study. Block out set times to study and if you slip and miss a session, restart your plan instead of letting yourself get paralyzed and procrastinate.

Name:

Date:

## The Study Plan:

Your study plan includes direction on how to use ABCTE's resources. We also include recommended resources to aid in your mastery. The full description of these can always be found at: [www.abcte.org/teach/exam-preparation](http://www.abcte.org/teach/exam-preparation). You should also rate these resources whenever possible.

This plan was designed for a 9 month period (4 months for Professional Teaching Knowledge (PTK); 4 months for the subject matter; 2 weeks to take each test) in which most people are able to complete the program. Many have completed the program in a shorter amount of time.

## READING AND ENGLISH LANGUAGE ARTS

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Alphabetics and Fluency</b>  <b>Alphabetics</b> <input type="checkbox"/> Topic 1: Alphabetic Basics and Phonemic Awareness <input type="checkbox"/> Topic 2: Phonics Instruction  <b>Fluency</b> <input type="checkbox"/> Fluency	<input type="checkbox"/> Review the specific Multiple Subject Exam (MSE) standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  The corresponding study materials can be found in your ABCTE Refresher Workshops at: <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <b>Alphabetics &amp; Fluency</b> <input type="checkbox"/> <a href="#">Alphabetics</a> <input type="checkbox"/> <a href="#">Phonics Instruction I</a> <input type="checkbox"/> <a href="#">Phonics Instruction II</a> <input type="checkbox"/> <a href="#">Fluency</a>	Websites: <input type="checkbox"/> <a href="#">Big Ideas in Beginning Reading</a> <input type="checkbox"/> <a href="#">Free-Reading</a> <input type="checkbox"/> <a href="#">Improving the Reading Achievement of America's Children: 10 Research-Based Principles.</a> <input type="checkbox"/> <a href="#">Partnership for Reading</a> <input type="checkbox"/> <a href="#">Teaching Children to Read</a> <input type="checkbox"/> <a href="#">Official DIBELS Home Page</a>  Books: <input type="checkbox"/> <a href="#">Direct Instruction Reading</a> <input type="checkbox"/> <a href="#">Phonics from A to Z</a> <input type="checkbox"/> <a href="#">Vocabulary Development</a> <input type="checkbox"/> <a href="#">Preventing Reading Difficulties in Young Children</a> <input type="checkbox"/> <a href="#">Beginning to Read: Thinking and Learning about Print</a> <input type="checkbox"/> <a href="#">Phonics They Use: Words for Reading and Writing</a> <input type="checkbox"/> <a href="#">Books to Build On: A Grade by Grade Resource Guide for Parents and Teachers</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> ↻ <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	(Time)

Your Notes:

**Note:** The recommended resources are often freely accessible online or can be found in your library. To ease your search, we have hyperlinked them.

Name:

Date:

## Study Tip:

One effective way of using the practice quizzes is to look at the incorrect answer choices before looking at the correct explanation to see if you can understand why those options are wrong. If you can understand how a test maker uses distractors, you will be able to eliminate wrong answer choices faster on test day.

## READING AND ENGLISH LANGUAGE ARTS

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Comprehension of Text</b>  <input type="checkbox"/> Topic 1: Vocabulary Development <input type="checkbox"/> Topic 2: Interpretation and Evaluation of Informational Texts <input type="checkbox"/> Topic 3: Interpretation and Evaluation of Literary Texts	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <a href="#">Word Comprehension</a> <input type="checkbox"/> <a href="#">Comprehension Strategies</a> <input type="checkbox"/> <a href="#">Putting It Together</a> <input type="checkbox"/> <a href="#">Comprehension of Texts</a>	Websites: <input type="checkbox"/> <a href="#">Reading Expository Text</a> <input type="checkbox"/> <a href="#">Teaching Reading Is Rocket Science</a>  Books: <input type="checkbox"/> <a href="#">Teaching for Comprehension in Reading</a> <input type="checkbox"/> <a href="#">Teaching Vocabulary in All Classrooms</a> <input type="checkbox"/> <a href="#">7 Keys to Comprehension: How to Help Your Kids Read It and Get It!</a>  <input type="checkbox"/> <b>These and other resources can be found at:</b> <input checked="" type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

*"I can give children the inspiration and encouragement to confront their own challenges, surpass negativity and persevere....Without this program, I wouldn't have had the opportunity to pursue teaching."*

-Traci Brown, ABCTE Teacher, FL

Name:

Date:

## Testing on the Computer:

This may be your first time taking a test on a computer. On average, people read 20% slower on a screen vs. paper. Because of this and other issues, practice as much as you can on the computer to become comfortable working in that environment.

Familiarity with the test and its standards will go a long way towards your ABCTE success.

The online practice tests are great practice to get a feel for the testing environment

## READING AND ENGLISH LANGUAGE ARTS

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> Oral and Written Language Development  <input type="checkbox"/> Topic 1: Standard English Language Conventions <input type="checkbox"/> Topic 2: Language Acquisition and Development <input type="checkbox"/> Topic 3: Comprehension and Delivery of Spoken Messages <input type="checkbox"/> Topic 4: Writing Strategies and Application <input type="checkbox"/> Topic 5: Research Strategies	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>  <input type="checkbox"/> <a href="#">Building Blocks of Language I</a> <input type="checkbox"/> <a href="#">Building Blocks of Language II</a> <input type="checkbox"/> <a href="#">Building Blocks of Language III</a> <input type="checkbox"/> <a href="#">Building Blocks of Language IV</a> <input type="checkbox"/> <a href="#">Building Blocks of Language V</a>	Websites: <input type="checkbox"/> <a href="#">Guide to Grammar and Writing</a> <input type="checkbox"/> <a href="#">Research Skills Tutorial</a> <input type="checkbox"/> <a href="#">Purdue's Online Writing Lab</a> <input type="checkbox"/> <a href="#">Oral Language Development across the Curriculum, K-12</a> <input type="checkbox"/> <a href="#">Young Children's Oral Language Development</a>  Books: <input type="checkbox"/> <a href="#">The Everyday Writer: A Brief Reference</a> <input type="checkbox"/> <a href="#">Woe Is I: The Grammarphobe's Guide to Better English in Plain English</a> <input type="checkbox"/> <a href="#">The Elements of Style</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> <input type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

*"The information presented in the courses and the workshops was extremely helpful to me because they provided real examples that I have been able to implement immediately in my classroom."*

–Lauren Masino, ABCTE Teacher, FL

Name:

Date:

We love to highlight ABCTE teachers in local newspapers. Not only does this provide publicity for a potential job search, it can also help highlight your school as one that is committed to providing students with the best possible teacher. Visit <http://www.abcte.org/get-involved/share-your-story>.

## HISTORY AND SOCIAL SCIENCE

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>World History</b>  <input type="checkbox"/> Topic 1: Ancient Civilizations <input type="checkbox"/> Topic 2: Medieval and Early Modern Times <input type="checkbox"/> Topic 3: Modern Times	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <a href="#">Ancient Cultures</a> <input type="checkbox"/> <a href="#">Ethics, Law, and Religion</a> <input type="checkbox"/> <a href="#">The Medieval Era</a> <input type="checkbox"/> <a href="#">Renaissance Through Enlightenment</a> <input type="checkbox"/> <a href="#">The Modern Era</a>	Websites: <input type="checkbox"/> <a href="#">HyperHistory Online</a> <input type="checkbox"/> <a href="#">The History Channel Website</a> <input type="checkbox"/> <a href="#">The Labyrinth: Resources for Medieval Studies</a>  Books: <input type="checkbox"/> <a href="#">From Dawn to Decadence: 1500 to Present</a> <input type="checkbox"/> <a href="#">Concise Atlas of World History</a> <input type="checkbox"/> <a href="#">Mastering Modern World History</a>  <input type="checkbox"/> <b>These and other resources can be found at:</b> ↻ <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

### Study Tip: Use a World History survey text

Bentley and Ziegler's *Traditions and Encounters: A Global Perspective on the Past* is recommended as your survey text. If you have another survey book from college, or you have access to a different text from your library, that is perfectly fine. It is important that you have access to a survey book because it will assist in covering the various domains of the exam.

Name:

Date:

**Study Tip:** Websites like Wikipedia and other unverified sources of information are *NOT* a good source of study. Much information found on the World Wide Web consists of unverified sources. Stick to verified sources with full citations. Many resources selected for study by our experts can be found on ABCTE's resource pages.

## HISTORY AND SOCIAL SCIENCE

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>United States History</b>  <input type="checkbox"/> Topic 1: Early Exploration, Colonial Era, and the War for Independence <input type="checkbox"/> Topic 2: The Development of the Constitution and the Early Republic <input type="checkbox"/> Topic 3: Civil War and Reconstruction <input type="checkbox"/> Topic 4: The Rise of Industrial America <input type="checkbox"/> Topic 5: Modern Times	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <a href="#">United States History</a> <input type="checkbox"/> <a href="#">The War For Independence</a> <input type="checkbox"/> <a href="#">Growth and Strife</a> <input type="checkbox"/> <a href="#">Industrialization and Rise to Power</a>	Websites: <input type="checkbox"/> <a href="#">Outline of American History</a> <input type="checkbox"/> <a href="#">Founders Online</a> <input type="checkbox"/> <a href="http://www.history.com/">http://www.history.com/</a>  Books: <input type="checkbox"/> <a href="#">American History the Easy Way</a> <input type="checkbox"/> <a href="#">The American Pageant: A History of the Republic</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> ↻ <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

### Use a U.S. History survey text

*The American Past*, one of the anchor texts used to develop the exam, is recommended as your survey text. If you have another survey book from college, or you have access to a different text from your library, that is perfectly fine. It is important that you have access to a survey book because it will assist in covering the various domains of the exam.

Name:

Date:

**Spread the Word:** Though many people talk about teaching as a second career, few people act on it and make a difference. Whether it is finding the means or the courage to take the first step in choosing a path, many people don't know a program like ABCTE even exists to simplify the process. The power of your actions can be the inspiration for the beginning of a career for friends or family.

## HISTORY AND SOCIAL SCIENCE

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> Civics/Government, Economics, Geography, and Reasoning Skills  <input type="checkbox"/> Topic 1: Civics/Government <input type="checkbox"/> Topic 2: Geography <input type="checkbox"/> Topic 3: Economics <input type="checkbox"/> Topic 4: Reasoning Skills	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>  <u>Civics/Government</u> <input type="checkbox"/> <a href="#">The US Constitution</a> <input type="checkbox"/> <a href="#">Civics and Government</a>  <u>Geography</u> <input type="checkbox"/> <a href="#">Geography</a>  <u>Economics</u> <input type="checkbox"/> <a href="#">Economics: The Basics</a>  <u>Reasoning Skills</u> <input type="checkbox"/> <a href="#">Through History's Lens</a>	Websites: <input type="checkbox"/> <a href="#">Constitution of the United States</a> <input type="checkbox"/> <a href="#">The Federalist Papers</a> <input type="checkbox"/> <a href="#">The Declaration of Independence</a> <input type="checkbox"/> <a href="#">Altapedia</a> <input type="checkbox"/> <a href="#">Geography Glossary</a> <input type="checkbox"/> <a href="#">An Outline of The U.S. Economy</a>  Books: <input type="checkbox"/> <a href="#">American History the Easy Way</a> <input type="checkbox"/> <a href="#">The American Pageant: A History of the Republic</a> <input type="checkbox"/> <a href="#">American Government</a> <input type="checkbox"/> <a href="#">Using Internet Primary Sources to Teach Critical Thinking Skills in History</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> <input type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

**Study Tip:** When you see an unfamiliar concept in the standards a good place to start is your survey text. Go to the index and look for the unknown person or term.

Name:

Date:

**Test Day Tip:** Familiarity with the exam is one of the most important ways to get prepared. Start with the standards and the domains and make sure to study hard, but don't underestimate the importance of being familiar with test day. Visit your testing location before you have to test. Know what to expect by way of writing boards, computers, and waiting rooms. Realize that there will be administrative parts of the test you will have to complete in addition to the exam itself.

## MATHEMATICS

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Number Sense</b>  <input type="checkbox"/> Topic 1: Numbers, Relationships Among Numbers and Number Systems <input type="checkbox"/> Topic 2: Computational Tools, Procedures and Strategies	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <a href="#">Numbers</a> <input type="checkbox"/> <a href="#">Numbers in Their Prime</a> <input type="checkbox"/> <a href="#">Calculating with Rational Numbers</a> <input type="checkbox"/> <a href="#">Fractions</a>	Websites: <input type="checkbox"/> <a href="#">Just the Facts (Basic Math Facts)</a> <input type="checkbox"/> <a href="#">Number Properties</a> <input type="checkbox"/> <a href="#">Number Types</a> <input type="checkbox"/> <a href="#">SparkNotes Math Study Guides</a>  Books: <input type="checkbox"/> <a href="#">Barron's Math the Easy Way</a> <input type="checkbox"/> <a href="#">Quick Arithmetic: A Self-Teaching Guide</a> <input type="checkbox"/> <a href="#">Prentice Hall's Reference for Mathematics: A Guide for Everyday Math</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> <input checked="" type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

*"Every resource ABCTE provided was helpful in gaining the knowledge needed to succeed as a teacher. The refresher courses were well organized and easy to follow and the personal advisor I was provided with really helped me plot a course for success as a teacher."*

-Mark Peniston, ABCTE Teacher, FL

# MULTIPLE SUBJECT EXAM STUDY PLAN

for

Name:

Date:

**Test Day Tip:** Did you know that the most important night to get a good night's sleep is not the night before but rather two nights before your exam? If you have ever pulled an all nighter, you will remember feeling pretty good the next day, though you end up falling asleep early. Get plenty of rest and take care of yourself the entire week for your exam.

## MATHEMATICS

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Geometry and Measurements</b>  <input type="checkbox"/> Topic 1: Two- and Three-Dimensional Geometric Objects <input type="checkbox"/> Topic 2: Representational Systems, Including Concrete Models, Drawings and Coordinate Geometry <input type="checkbox"/> Topic 3: Techniques, Tools and Formulas for Determining Measurements	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <a href="#">Polygons</a> <input type="checkbox"/> <a href="#">Properties of Polygons</a> <input type="checkbox"/> <a href="#">Transformations</a> <input type="checkbox"/> <a href="#">Three-Dimensional Figures, or Solids</a> <input type="checkbox"/> <a href="#">Proofs</a> <input type="checkbox"/> <a href="#">Representational Systems</a> <input type="checkbox"/> <a href="#">Measuring Triangles</a> <input type="checkbox"/> <a href="#">Measuring Quadrilaterals</a> <input type="checkbox"/> <a href="#">Measuring Circles</a> <input type="checkbox"/> <a href="#">Measures Involving Three-Dimensional Figures</a> <input type="checkbox"/> <a href="#">Measuring Other Solids</a> <input type="checkbox"/> <a href="#">The Effects on Measures of Changes in Dimensions</a> <input type="checkbox"/> <a href="#">Summarizing Data</a>	Websites: <input type="checkbox"/> <a href="#">Geometry Help</a>  Books: <input type="checkbox"/> <a href="#">Geometry</a> <input type="checkbox"/> <a href="#">Geometry Demystified</a> <input type="checkbox"/> <a href="#">Schaum's Outline of Geometry</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> <input checked="" type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

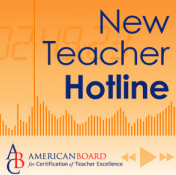
**Test Day Tip:** Exam Familiarity – Did you know that your clock starts the moment you start the test? That means reading the instructions is art of the timed test. Knowing what the instructions say before you go into the testing center gives you a slight advantage. That way you simply skim through the instructions for any surprises and then get right into the exam.

**Test Day Tip:** Don't underestimate nutrition and fitness when taking standardized tests! This a four hour event and much like sporting events, it is necessary to eat right, hydrate well, and manage your energy. You want to avoid sugars; instead jumpstart your brain with a carbohydrate like toast or a bagel and follow with a protein for long term energy. Fruits or energy bars are good snacks but avoid stimulants if possible.

## MATHEMATICS

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Statistics, Data Analysis and Probability</b> <input type="checkbox"/> <b>Mathematical Reasoning and Problem Solving</b>  <input type="checkbox"/> <b>Topic 1: Collection, Organization, and Representation of Data</b> <input type="checkbox"/> <b>Topic 2: Inferences, Predictions, and Arguments Based on Data</b> <input type="checkbox"/> <b>Topic 3: Basic Notions of Change and Probability</b> <input type="checkbox"/> <b>Topic 4: Mathematical Reasoning and Problem Solving</b>	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <b>Statistics, Data Analysis and Probability</b> <input type="checkbox"/> Frequency Tables and Histograms <input type="checkbox"/> Probability, Permutation, and More  <b>Mathematical Reasoning and Problem Solving</b> <input type="checkbox"/> Mathematical Reasoning and Problem Solving <input type="checkbox"/> Mathematics Instruction	<b>Websites:</b> <input type="checkbox"/> <a href="#">StatSoft Electronic Textbook</a> <input type="checkbox"/> <a href="#">Open Learning Initiative's Statistics Course</a> <input type="checkbox"/> <a href="#">How to Write Proofs</a> <input type="checkbox"/> <a href="#">Related Conditionals</a>  <b>Books:</b> <input type="checkbox"/> <a href="#">Elementary Statistics</a> <input type="checkbox"/> <a href="#">Statistics for People Who (Think They) Hate Statistics</a> <input type="checkbox"/> <a href="#">A Problem Solving Approach to Mathematics for Elementary School Teachers</a> <input type="checkbox"/> <a href="#">How to Read and Do Proofs: An Introduction to Mathematical Thought Processes</a>  <input type="checkbox"/> <b>These and other resources can be found at:</b> <input type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:



*"The podcast for new teachers is very helpful. I have them all on my iPod and they really hit some good topics."*

- Lisa Mayo, ABCTE Teacher, PA

Dr. Glen Moulton, a supervisor of instruction and life-long teacher trainer, and Michael Kelley, author of *Rookie Teaching for Dummies*, provide advice, tips, and discussions for new and veteran teachers monthly. Sign up for this great resource. It is free for anyone to download for help in the classroom:

[www.newteacherhotline.com](http://www.newteacherhotline.com)

Name:

Date:

**Exam Tip:** When questions seem to have more than one right answer, it is likely that you are not catching a distractor. In your practice, see if your first instinct tends to give you the right answer. More often than not, it does if you have studied well. On test day, when you get stuck you can rely on your gut and move on without using up too much time. This is true for the “Best” question type as well. More than one answer may seem correct, but the right answer will not need an extra step.

## SCIENCE

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Life Science</b>  <input type="checkbox"/> Topic 1: Structure of Living Organisms and Their Function (Physiology and Cell Biology) <input type="checkbox"/> Topic 2: Living and Nonliving Components in Environments (Ecology) <input type="checkbox"/> Topic 3: Life Cycle, Reproduction, and Evolution (Genetics and Evolution)	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <a href="#">Life Science</a> <input type="checkbox"/> <a href="#">Natural Cycles</a> <input type="checkbox"/> <a href="#">Genetics and Heredity</a>	Websites: <input type="checkbox"/> <a href="#">What is Life: A Lifescience Educational Forum</a>  Books: <input type="checkbox"/> <a href="#">Biology: Life on Earth</a> <input type="checkbox"/> <a href="#">Biology: Concepts and Connections</a>  <input type="checkbox"/> <b>These and other resources can be found at:</b> <input type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

**Resource Tip:** Though your advisor is not a tutor, he or she are there to answer questions on how the program works and direct you to resources to aid in your studying. The advisor’s job is to help you and hundreds of other candidates make it through the program. Our advisors will take your questions when you call in, but if your question requires more discussion, they may book an appointment with you.

Name:

Date:

**Test Day Tip: Hydration** – Did you know Gatorade has the same osmolarity as blood? That means it has the same concentration of salts and electrolytes and it makes it easier to absorb. It also means you go to the bathroom less than if you drink water.

## SCIENCE

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Earth and Space Science</b>  <input type="checkbox"/> Topic 1: The Solar System and the Universe <input type="checkbox"/> Topic 2: The Structure and Composition of the Earth (Geology) <input type="checkbox"/> Topic 3: The Earth's Atmosphere (Meteorology) <input type="checkbox"/> Topic 4: The Earth's Water (Oceanography and Fresh Water Bodies) <input type="checkbox"/> Topic 5: The Earth's Resources	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a> <input type="checkbox"/> <u>The Solar System and The Universe</u> <input type="checkbox"/> <u>Structure and Composition of the Earth</u>	Websites: <input type="checkbox"/> <u>Geoscience</u> <input type="checkbox"/> <u>Geoscience: The Earth</u>  Books: <input type="checkbox"/> <u>Astronomy for Dummies</u> <input type="checkbox"/> <u>Earth Science</u>  <input type="checkbox"/> <b>These and other resources can be found at:</b> <input checked="" type="checkbox"/> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:

Questions and concerns can be directed to the Help Desk at: <http://helpdesk.abcte.org/>  
Or contact your advisor at: [advisor@abcte.org](mailto:advisor@abcte.org)

# MULTIPLE SUBJECT EXAM STUDY PLAN

for

Name:

Date:

**Test Day Tip:** In case of an incident on test day, like a blackout, or computer failure, do not despair!, Report the incident immediately to the Pearson VUE test center personnel and then after the exam, contact your advisor. Minor incidents may not be considered problematic so continue the test to the best of your ability.

## SCIENCE

Area of Study	Required Resource	Recommended Resource	Timeline
<input type="checkbox"/> <b>Physical Science</b>  <input type="checkbox"/> Topic 1: Structure and Properties of Matter <input type="checkbox"/> Topic 2: Principles of Motion and Energy  <input type="checkbox"/> <b>Scientific Investigation Skills</b>  <input type="checkbox"/> Scientific Investigation Skills	<input type="checkbox"/> Review the specific MSE standard <a href="http://www.abcte.org/teach/exam-preparation/multiple-subject/standards">http://www.abcte.org/teach/exam-preparation/multiple-subject/standards</a>  <b>The corresponding materials can be found in your ABCTE Refresher Workshops at:</b> <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>  <input type="checkbox"/> <a href="#">Structure and Properties of Matter</a> <input type="checkbox"/> <a href="#">Principles of Motion &amp; Energy</a> <input type="checkbox"/> <a href="#">Electricity and Magnetism</a> <input type="checkbox"/> <a href="#">Scientific Investigation Skills</a>	Websites: <input type="checkbox"/> <a href="#">Easyphysics.net</a> <input type="checkbox"/> <a href="#">Plus2Physics</a> <input type="checkbox"/> <a href="#">The Physics Classroom</a> <input type="checkbox"/> <a href="#">A Beginner's Guide to Scientific Method</a> <input type="checkbox"/> <a href="#">Achieving Scientific Literacy: From Purposes to Practices</a>  Books: <input type="checkbox"/> <a href="#">Chemistry: Concepts and Problems: A Self-Teaching Guide</a> <input type="checkbox"/> <a href="#">Conceptual Physical Science</a> <input type="checkbox"/> <a href="#">Physics Demystified: A Self-Teaching Guide</a> <input type="checkbox"/> <a href="#">The Cartoon Guide to Physics</a> <input type="checkbox"/> <a href="#">The Cartoon Guide to Chemistry</a>  <input type="checkbox"/> <b>These and other <a href="#">resources</a> can be found at:</b> ↻ <a href="http://www.abcte.org/courses/multiple-subject-area/index.html">http://www.abcte.org/courses/multiple-subject-area/index.html</a>	{Time}

Your Notes:



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<http://www.abcte.org/facebook>