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Test and Test Information Guide Development

Teacher Certification Testing

Since 1980, Florida teacher certification candidates have been required to pass the Florida Teacher Certification Examinations (FTCE), which has consisted of tests in reading, writing, mathematics, and professional knowledge. The 1986 Florida Legislature modified the testing program by also requiring teacher candidates to pass a test in the subject area in which they wish to be certified. In addition, the Legislature substituted the Florida College-Level Academic Skills Test (CLAST) for the reading, writing, and mathematics portions of the FTCE. The 2000 Florida Legislature replaced the CLAST with the General Knowledge Test, effective July 1, 2002.

The General Knowledge Test consists of four subtests: English Language Skills, Mathematics, Reading, and Essay. The content assessed on the test was identified and validated by committees of content specialists from within the state of Florida. Committee members included public school teachers, district supervisors, and college faculty with expertise in these fields. Committee members were selected on the basis of recommendations by district superintendents, public school principals, deans of education, experts in the field, and other organizations. In developing the test, the committees used an extensive literature review, interviews with selected public school teachers, a large-scale survey of teachers, pilot tests, and their own professional judgment.

Role of the Test Information Guide

The purpose of this test information guide is to help candidates taking the General Knowledge Test prepare effectively for the examination. The guide was designed to familiarize prospective test takers with various aspects of the examination, including the content that is covered and the way it is represented. The guide should enable candidates to direct their study and to focus on relevant material for review.

This test information guide is intended primarily for use by certification candidates, who may be students in a college or university teacher-preparation program, teachers with provisional certification, teachers seeking certification in an additional subject area, or persons making a career change to public school teaching. Candidates may have studied and worked in Florida or may be from out of state.
College or university faculty may also use the guide to prepare students for certification, and inservice trainers may find the guide useful for helping previously certified teachers prepare for recertification or multiple certification.

This test information guide is not intended as an all-inclusive source of subject area knowledge, nor is it a substitute for college course work in the subject area. The sample questions are representative of the content of the actual test; however, they are not actual test questions from an actual test form. Instead, the guide is intended to help candidates prepare for the subject area test by presenting an overview of the content and format of the examination.
Preparation for the Test

The following outline may help you to prepare for the examination. Adapt these suggestions to suit your own study habits and the time you have available for review.

Overview

- Look over the organization of the test information guide.
  - Section 1 discusses the development of the test and test information guide.
  - Section 2 (this section) outlines test preparation steps.
  - Section 3 offers strategies for taking the test.
  - Section 4 presents information about the content and structure of the test.
  - Section 5 lists question formats and includes sample test questions.
  - Section 6 provides an annotated bibliography of general references you may find useful in your review.
  - Section 7 identifies a source of further information.

Self-Assessment

- Decide which content areas you should review.
  - Section 4 includes the competencies and skills used to develop this subject area test and the approximate proportion of test questions from each competency area.

Review

- Study according to your needs.
  - Review all of the competencies and concentrate on areas with which you are least familiar.

Practice

- Acquaint yourself with the format of the examination.
  - Section 5 describes types of questions you may find on the examination.
- Answer sample test questions.
  - Section 5 gives you an opportunity to test yourself with sample test questions and provides an answer key and information regarding the competency to which each question is linked.
Final preparation

- **Review test-taking advice.**
  Section 3 includes suggestions for improving your performance on the examination.

- **Refer to field-specific references.**
  Section 6 includes an annotated bibliography listing general references keyed to the competencies and skills used to develop this subject area test.
Test-Taking Advice

• Go into the examination prepared, alert, and well rested.
• Complete your travel arrangements prior to the examination date. Plan to arrive early so that you can locate the parking facilities and examination room without rushing.
• Dress comfortably and bring a sweater or jacket in case the room is too cool.
• Take the following with you to the test site:
  — Admission ticket
  — Several sharpened No. 2 pencils with erasers; pencils will not be supplied at the test site
  — Proper identification as described in "Identification Policy" in the registration bulletin
  — Blue- or black-ink ballpoint pen if you are taking an essay
  — Watch

• There are many strategies for taking a test and different techniques for dealing with different types of questions. Nevertheless, you may find the following general suggestions useful.
  — Read each question and all the response options carefully before marking your answer. Pay attention to all of the details.
  — Go through the entire test once and answer all the questions you are reasonably certain about. Then go back and tackle the questions that require more thought.
  — When you are not certain of the right answer, eliminate as many options as you can and choose the response that seems best. It is to your advantage to answer all the questions on the test, even if you are uncertain about some of your choices.
  — After completing the examination, go back and check every question. Verify that you have answered all of the questions and that your responses are correctly entered.
  — For paper-based tests, check periodically to be sure that you are correctly coding your answers on the answer sheet. When you answer a question out of sequence, be certain that the number of the circle you mark on your answer sheet corresponds to the proper question number in the test booklet. Be certain to mark your answers clearly on the answer sheet. If you change an answer, erase the first pencil mark completely. Also make sure there are no stray marks on the answer sheet.
Competencies and Skills and Test Blueprint

The table on the following pages lists the competencies and skills used as the basis for the General Knowledge Test. These competencies and skills represent the knowledge that teams of teachers, subject area specialists, and district-level educators have determined to be important for beginning teachers. This table could serve as a checklist for assessing your familiarity with each of the areas covered by the test. The competencies and skills should help you organize your review. The test blueprint indicates the approximate number of test questions that will cover the specific competency on the exam.

Competencies are broad areas of content knowledge.

Skills identify specific behaviors that demonstrate the competencies.

Approximate number of questions indicates the approximate number of test questions that represent the competencies on the test.

The following excerpt illustrates the components of the table.

<table>
<thead>
<tr>
<th>Competency/Skill</th>
<th>Approximate # of Questions</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH LANGUAGE SKILLS</td>
<td></td>
</tr>
<tr>
<td>1 Conceptual and organizational skills</td>
<td>4</td>
</tr>
<tr>
<td>1 Identify logical order in a written passage.</td>
<td></td>
</tr>
<tr>
<td>2 Identify irrelevant sentences.</td>
<td></td>
</tr>
<tr>
<td>2 Word choice skills</td>
<td>6</td>
</tr>
<tr>
<td>1 Choose the appropriate word or expression in context.</td>
<td></td>
</tr>
<tr>
<td>2 Recognize commonly confused or misused words or phrases.</td>
<td></td>
</tr>
<tr>
<td>3 Recognize diction and tone appropriate to a given audience.</td>
<td></td>
</tr>
<tr>
<td>3 Sentence structure skills</td>
<td>6</td>
</tr>
<tr>
<td>1 Recognize correct placement of modifiers.</td>
<td></td>
</tr>
<tr>
<td>2 Recognize parallelism, including parallel expressions for parallel ideas.</td>
<td></td>
</tr>
<tr>
<td>3 Recognize fragments, comma splices, and run-on sentences.</td>
<td></td>
</tr>
<tr>
<td>Competency/Skill</td>
<td>Approximate # of Questions</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>ENGLISH LANGUAGE SKILLS</strong></td>
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<td></td>
</tr>
<tr>
<td>3 Recognize fragments, comma splices, and run-on sentences.</td>
<td></td>
</tr>
<tr>
<td>4 Grammar, spelling, capitalization, and punctuation skills</td>
<td>24</td>
</tr>
<tr>
<td>1 Identify standard verb forms.</td>
<td></td>
</tr>
<tr>
<td>2 Identify inappropriate shifts in verb tense.</td>
<td></td>
</tr>
<tr>
<td>3 Identify agreement between subject and verb.</td>
<td></td>
</tr>
<tr>
<td>4 Identify agreement between pronoun and antecedent.</td>
<td></td>
</tr>
<tr>
<td>5 Identify inappropriate pronoun shifts.</td>
<td></td>
</tr>
<tr>
<td>6 Identify clear pronoun references.</td>
<td></td>
</tr>
<tr>
<td>7 Identify proper case forms.</td>
<td></td>
</tr>
<tr>
<td>8 Identify the correct use of adjectives and adverbs.</td>
<td></td>
</tr>
<tr>
<td>9 Identify appropriate comparative and superlative degree forms.</td>
<td></td>
</tr>
<tr>
<td>10 Identify standard spelling.</td>
<td></td>
</tr>
<tr>
<td>11 Identify standard punctuation.</td>
<td></td>
</tr>
<tr>
<td>12 Identify standard capitalization.</td>
<td></td>
</tr>
<tr>
<td>Competency/Skill</td>
<td>Approximate # of Questions</td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td><strong>MATHEMATICS</strong></td>
<td></td>
</tr>
<tr>
<td>The test center will provide a 4-function calculator.</td>
<td></td>
</tr>
<tr>
<td>The test center will provide a reference sheet.</td>
<td></td>
</tr>
<tr>
<td><strong>1 Knowledge of number sense, concepts, and operations</strong></td>
<td>8</td>
</tr>
<tr>
<td>1 Compare the relative value of real numbers (e.g., integers, fractions, decimals, percents, irrational numbers, and numbers expressed in exponential or scientific notation).</td>
<td></td>
</tr>
<tr>
<td>2 Solve real-world problems involving addition, subtraction, multiplication, and division of rational numbers (e.g., whole numbers, integers, decimals, percents, and fractions including mixed numbers).</td>
<td></td>
</tr>
<tr>
<td>3 Apply basic number theory concepts including the use of primes, composites, factors, and multiples in solving problems.</td>
<td></td>
</tr>
<tr>
<td>4 Apply the order of operations with or without grouping symbols.</td>
<td></td>
</tr>
<tr>
<td><strong>2 Knowledge of measurement (using customary or metric units)</strong></td>
<td>10</td>
</tr>
<tr>
<td>1 Solve real-world problems involving length, weight, mass, perimeter, area, capacity, and volume.</td>
<td></td>
</tr>
<tr>
<td>2 Solve real-world problems involving rated measures (e.g., miles per hour, meters per second, cost per item, and cost per unit).</td>
<td></td>
</tr>
<tr>
<td>3 Solve real-world problems involving scaled drawings (e.g., maps, blueprints, and models).</td>
<td></td>
</tr>
<tr>
<td>4 Solve real-world problems involving the change of units of measures of length, weight, mass, capacity, and time.</td>
<td></td>
</tr>
<tr>
<td>5 Solve real-world problems involving estimates of measures including length, weight, mass, temperature, time, money, perimeter, area, and volume.</td>
<td></td>
</tr>
<tr>
<td>6 Choose the correct reading, to a specified degree of accuracy, using instruments (e.g., scales, rulers, thermometers, measuring cups, protractors, and gauges).</td>
<td></td>
</tr>
<tr>
<td>Competency/Skill</td>
<td>Approximate # of Questions</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td><strong>3 Knowledge of geometry and spatial sense</strong></td>
<td>9</td>
</tr>
<tr>
<td>1 Identify and/or classify simple two- and three-dimensional figures according to their properties.</td>
<td></td>
</tr>
<tr>
<td>2 Solve real-world and mathematical problems involving ratio, proportion, similarity, congruence, and the Pythagorean relationship.</td>
<td></td>
</tr>
<tr>
<td>3 Identify the location of ordered pairs of integers in all four quadrants of a coordinate system (graph) and use the coordinate system to apply the concepts of slope and distance to solve problems.</td>
<td></td>
</tr>
<tr>
<td>4 Identify real-world examples that represent geometric concepts including perpendicularity, parallelism, tangency, symmetry, and transformations (e.g., flips, slides, and turns).</td>
<td></td>
</tr>
<tr>
<td><strong>4 Knowledge of algebraic thinking</strong></td>
<td>9</td>
</tr>
<tr>
<td>1 Analyze and generalize patterns including arithmetic and geometric sequences.</td>
<td></td>
</tr>
<tr>
<td>2 Interpret algebraic expressions using words, symbols, variables, tables, and graphs.</td>
<td></td>
</tr>
<tr>
<td>3 Solve equations and inequalities graphically or algebraically.</td>
<td></td>
</tr>
<tr>
<td>4 Determine whether a number or ordered pair is among the solutions of given equations or inequalities.</td>
<td></td>
</tr>
<tr>
<td><strong>5 Knowledge of data analysis and probability</strong></td>
<td>9</td>
</tr>
<tr>
<td>1 Analyze data and solve problems using data presented in histograms, bar graphs, circle graphs, pictographs, tables, and charts.</td>
<td></td>
</tr>
<tr>
<td>2 Identify how the presentation of data can lead to different or inappropriate interpretations.</td>
<td></td>
</tr>
<tr>
<td>3 Calculate range, mean, median, and mode(s) from sets of data and interpret the meaning of the measures of central tendency (i.e., mean, median, and mode) and dispersion (i.e., range and standard deviation).</td>
<td></td>
</tr>
<tr>
<td>4 Identify how the measures of central tendency (i.e., mean, median, or mode) can lead to different interpretations.</td>
<td></td>
</tr>
<tr>
<td>5 Calculate the probability of a specified outcome.</td>
<td></td>
</tr>
<tr>
<td>6 Solve and interpret real-world problems involving probability using counting procedures, tables, tree diagrams, and the concepts of permutations and combinations.</td>
<td></td>
</tr>
</tbody>
</table>
### Competency/Skill

#### READING
All items are passage based. The passages will be both expository and narrative. Each test form will contain approximately four passages.

<table>
<thead>
<tr>
<th>1</th>
<th>Knowledge of literal comprehension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Recognize main ideas.</td>
</tr>
<tr>
<td>2</td>
<td>Identify supporting details.</td>
</tr>
<tr>
<td>3</td>
<td>Determine meaning of words or phrases in context.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>Knowledge of inferential comprehension</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Determine purpose.</td>
</tr>
<tr>
<td>2</td>
<td>Identify overall organizational pattern.</td>
</tr>
<tr>
<td>3</td>
<td>Distinguish between fact and opinion.</td>
</tr>
<tr>
<td>4</td>
<td>Recognize bias.</td>
</tr>
<tr>
<td>5</td>
<td>Recognize tone.</td>
</tr>
<tr>
<td>6</td>
<td>Determine relationships between sentences.</td>
</tr>
<tr>
<td>7</td>
<td>Analyze the validity of arguments.</td>
</tr>
<tr>
<td>8</td>
<td>Draw logical inferences and conclusions.</td>
</tr>
</tbody>
</table>

### Table of Essay Skills

<table>
<thead>
<tr>
<th>Competency/Skill</th>
</tr>
</thead>
</table>

#### ESSAY SKILLS
- Determine the purpose for writing.
- Formulate a thesis or statement of main idea.
- Organize ideas and details effectively.
- Provide adequate, relevant supporting material.
- Use effective transitions.
- Demonstrate a mature command of language.
- Avoid inappropriate use of slang, jargon, and clichés.
- Use a variety of sentence patterns effectively.
- Maintain consistent point of view.
- Observe the conventions of standard American English.
Test Format and Sample Questions

The General Knowledge Test consists of four subtests: English Language Skills, Mathematics, Reading, and Essay. You will have three hours and fifty minutes to complete the test.

You will receive test booklets that contain the essay topics and multiple-choice questions. The answer booklet includes lined paper for your essay and a grid for answers to the multiple-choice questions.

The Essay

For your essay, you will choose between two topics. The 50 minutes allotted for this section of the exam includes time to prepare, write, and edit your essay.

Your work will be scored holistically by two judges. The personal views you express will not be an issue; however, the skill with which you express those views, the logic of your arguments, and the degree to which you support your position will be very important in the scoring. Your essay will be scored both on substance and on the composition skills demonstrated.

The judges will use the criteria on pages 16–17 when evaluating your essay.

Multiple-Choice Subtests

The English Language Skills and Reading subtests are each 40 minutes long and consist of approximately 40 multiple-choice questions per subtest. The Mathematics Subtest consists of approximately 45 multiple-choice questions and is 100 minutes long. Each multiple-choice subtest may also contain approximately 5 experimental items that will not be scored.

Each multiple-choice question will contain three or four response options, and you will record your selection by bubbling in A, B, C, or D on the answer sheet. For the Mathematics Subtest, the test center will provide a 4-function calculator and a mathematics reference sheet.

The following sections explain procedures for each part of the test and direct you to examples of each type of question among the sample items.
GENERAL KNOWLEDGE TEST – ESSAY WRITING

GENERAL STRATEGIES FOR WRITING THE ESSAY FOR THE GENERAL KNOWLEDGE TEST

1. **Watch the time.** Take a few minutes at the beginning of the period to plan your essay and at the end to proofread or revise your work. Use all the time wisely. You should not run out of time before you are done; nor should you write an incomplete essay because you did not use all the time allowed. **NOTE:** You do not have time to write a rough draft and then completely rewrite it. Spend your time writing and editing your final essay.

2. **Read the instructions carefully and select one of the topics.** Determine what the topic is asking. Think of how the topic relates to what you know, what you have learned, and what experiences you have had, so you can provide concrete details rather than vague generalities.

3. **Take a few minutes to prewrite.** Jot down your first ideas (some you may like; others you may discard). Sketch a quick outline or group your ideas together with arrows or numbers. Begin to "see" your essay taking shape—even before you start writing.

4. **Write a thesis statement that provides a clear focus for your essay.** State a point of view in your thesis that guides the purpose and scope of your essay. Consider the larger point you are trying to convey to the reader and what you want the reader to understand about the topic. Avoid a thesis statement framed as a statement of fact, a question, or an announcement.

5. **Develop the essay according to your purpose.** Develop paragraphs fully to give the reader examples and reasons that support your thesis. Indent each new paragraph. Note that a good essay for the General Knowledge Test may be longer or shorter than the basic five-paragraph format of some short essays. Do not limit yourself to an arbitrary length. The key is to develop a topic by using concrete, informative details.

6. **Tie your main ideas together with a brief conclusion.** Provide a concluding paragraph that ties together the essay's points and offers insights about the topic. Avoid a conclusion that merely restates the thesis and repeats the supporting details. Check your time. If the writing period is almost over, wrap up quickly, so you can proofread or revise.
7. **Revise/proofread the essay to conform to standard American English.** Look for particular errors you tend to make. Read each sentence from the last sentence to the first. Mark out errors and correct them. You will never be penalized for clearly crossing out errors. Look for words, sentences, or even paragraphs that need changing. Write legibly so that the reader knows what you have written.
SCORING CRITERIA FOR THE GENERAL KNOWLEDGE ESSAY

SCORE of 6  The paper has a clearly established main idea that the writer fully develops with specific details and examples. Organization is notably logical and coherent. Point of view is consistently maintained. Vocabulary and sentence structure are varied and effective. Errors in sentence structure, usage, and mechanics are few and insignificant.

SCORE of 5  The paper has a clearly established main idea that is adequately developed and recognizable through specific details and/or examples. Organization follows a logical and coherent pattern. Point of view is mostly maintained. Vocabulary and sentence structure are mostly varied and effective. Occasional errors in sentence structure, usage and mechanics do not interfere with the writer's ability to communicate.

SCORE of 4  The paper has an adequately stated main idea that is developed with some specific details and examples. Supporting ideas are presented in a mostly logical and coherent manner. Point of view is somewhat maintained. Vocabulary and sentence structure are somewhat varied and effective. Occasional errors in sentence structure, usage, and mechanics may interfere with the writer's ability to communicate.

SCORE of 3  The paper states a main idea that is developed with generalizations or lists. The paper may contain occasional lapses in logic and coherence, and organization is mechanical. Point of view is ambiguous. Vocabulary and sentence structure are repetitious and often ineffective. A variety of errors in sentence structure, usage, and mechanics sometimes interferes with the writer's ability to communicate.

SCORE of 2  The paper presents an incomplete or ambiguous main idea. Support is developed with generalizations and lists. Organization is mechanical. The paper contains occasional lapses in logic and coherence. Point of view is confusing and distracting. Word choice is simplistic, and sentence structure is disjointed. Errors in sentence structure, usage, and mechanics frequently interfere with the writer's ability to communicate.
SCORE OF 1 The paper has no evident main idea. Development is inadequate and/or irrelevant. Organization is illogical and/or incoherent. Point of view has not been established. Vocabulary and sentence structure are garbled and confusing. Significant and numerous errors in sentence structure, usage, and mechanics interfere with the writer's ability to communicate.
## Table of Question Formats

<table>
<thead>
<tr>
<th>Type of Question</th>
<th>Sample Question</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Essay</strong></td>
<td>page 19</td>
</tr>
<tr>
<td>Select a topic and develop an essay explaining the topic or supporting your position on the topic.</td>
<td></td>
</tr>
<tr>
<td><strong>Passage</strong></td>
<td>Question 1 page 21</td>
</tr>
<tr>
<td>Read the passage and select the correct answer.</td>
<td></td>
</tr>
<tr>
<td><strong>Command</strong></td>
<td>Question 2 page 21</td>
</tr>
<tr>
<td>Select the best response option.</td>
<td></td>
</tr>
<tr>
<td><strong>Direct Question</strong></td>
<td>Question 9 page 36</td>
</tr>
<tr>
<td>Choose the response option that best answers the question.</td>
<td></td>
</tr>
<tr>
<td><strong>Scenario</strong></td>
<td>Question 2 page 27</td>
</tr>
<tr>
<td>Examine a situation, problem, or case study. Then answer a question, make a diagnosis, or recommend a course of action by selecting the best response option.</td>
<td></td>
</tr>
<tr>
<td><strong>Graphics</strong></td>
<td>Question 4 page 28</td>
</tr>
<tr>
<td>Choose the option that best answers a question involving a number line, a geometric figure, graphs of lines or curves, a table, or a chart.</td>
<td></td>
</tr>
<tr>
<td><strong>Word Problem</strong></td>
<td>Question 6 page 30</td>
</tr>
<tr>
<td>Apply mathematical principles to solve a real-world problem.</td>
<td></td>
</tr>
<tr>
<td><strong>Sentence Completion</strong></td>
<td>Question 1 page 33</td>
</tr>
<tr>
<td>Select the response option that best completes the sentence.</td>
<td></td>
</tr>
</tbody>
</table>
Sample Questions

The following questions represent both the form and content of questions on the examination. These questions will acquaint you with the general format of the examination; however, these sample questions do not cover all of the competencies and skills that are tested and will only approximate the degree of examination difficulty.

Answer keys for the multiple-choice questions follow at the end of the sample questions. The answer keys include information regarding the competency to which each question is linked.
SAMPLE ESSAY TOPICS

DIRECTIONS: Two topics are presented below. Select one of the topics as the basis for your essay. READ THE TOPICS VERY CAREFULLY TO MAKE SURE YOU KNOW WHAT YOU ARE BEING ASKED TO DO.

<table>
<thead>
<tr>
<th>Topic 1.</th>
<th>A place you would find interesting to visit</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR</td>
<td></td>
</tr>
<tr>
<td>Topic 2.</td>
<td>A practice affecting the environment that should be changed or discontinued</td>
</tr>
</tbody>
</table>

Read the two topics again and select the one on which you wish to write your essay. In order for your essay to be scored, it must be on only one of these topics, and it must address the entire topic.

In your essay, you should introduce the subject and then either

— explain the subject you have chosen or
— take a position about your subject and support that position.

At least two evaluators will read your essay and assign it a score. They will pay special attention to whether you have observed the following:

- determined the purpose of writing
- formulated a thesis or statement of main idea
- organized ideas and details effectively
- provided adequate, relevant support material
- used effective transitions
- demonstrated a mature command of language
- avoided inappropriate use of slang, jargon, and clichés
- used a variety of sentence patterns effectively
- maintained consistent point of view
- observed the conventions of standard American English

Take a few minutes to plan what you want to say before you start writing. Leave yourself a few minutes at the end of the period to proofread and make corrections.

You may cross out or add information as necessary. Although your handwriting will not affect your score, you should write as legibly as possible so the evaluators can easily read your essay.

Please see pages 14–15 for advice on writing the essay and pages 16–17 for the essay scoring criteria.
ENGLISH LANGUAGE SKILLS SAMPLE ITEMS

1. Read the entire passage carefully and then answer the question.  
( Note: Intentional errors have been included in this passage.)

   (1) Ponce de León was a Spanish sailor who served as governor of the island of Puerto Rico before he was encouraged by the Spanish Crown to sail north to continue his search for new lands.  (2) The city of Ponce in Puerto Rico is named in his honor.  (3) He had heard from Native Americans that there existed a fountain of youth on an island called Bimini (located in the Bahamas).  (4) It was on this search, both on behalf of the Crown and for the fountain of youth, that he came upon mainland Florida.  (5) At the time, he had no idea he had reached the North American mainland.  (6) Ponce de León's search was cut short in 1521 when his party had a skirmish with Native Americans on the west coast of Florida.  (7) He died shortly after from injuries he received.

Which numbered sentence is LEAST relevant to the passage?

A. sentence 2  
B. sentence 3  
C. sentence 4  
D. sentence 5

2. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

Traffic proceeded slowly as cars went threw a bottleneck at the construction site.

A. preceded  
B. through  
C. cite  
D. No change is necessary.
3. DIRECTIONS: Choose the most appropriate opening statement for this article.

Joanne, an officer in the Future Educators Association in her school, has been asked to write an article for her organization's newsletter describing her recent job interview.

A. I thought I was going to faint before the interviewer asked me the first question.
B. Don't worry about interviews; they are so desperate for teachers anyone can get hired.
C. Interviewing, like most everything else in education, requires planning and preparation.
D. I was really nervous before the interview began, but when the interviewer began asking questions, I could see that she was really interested in hiring the right person for the position.

4. DIRECTIONS: Choose the sentence that has no errors in structure.

A. The book taught me how to change the faucet and connect the water supply.
B. The book taught me how to change the faucet and connecting the water supply.
C. The book taught me about changing the faucet and to connect the water supply.

5. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

If none of these positions appeals to you, don't despair, there will always be tomorrow's help-wanted ads to investigate.

A. despair there
B. despair. There
C. despair; there,
D. No change is necessary.
6. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

It was highly unlikely that he could pick up the medicine before the store closed.
Just as he was walking to the front door, the store manager sees him and unlocked the door.

A. closes  
B. saw  
C. unlocks  
D. No change is necessary.

7. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

My friend, her dog, and I went for a ride in my new car, and she chewed through one of the seat belts.

A. my friend  
B. her dog  
C. they  
D. No change is necessary.

8. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

Although Javier and I have seen the movie before, it still makes we laugh as much as ever.

A. me  
B. its  
C. us  
D. No change is necessary.
9. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

These two brands of inexpensive laundry detergent both performed fantastic on those terrible stains.

A. inexpensively  
B. fantastically  
C. terribly  
D. No change is necessary.

10. DIRECTIONS: Choose the option that corrects an error in the underlined portion(s). If no error exists, choose "No change is necessary."

As we drove by uncle George's house, I noticed that my math book was not in my backpack, so I asked my sister to turn the car around and go back to school.

A. Uncle  
B. Math  
C. Sister  
D. No change is necessary.
Mathematics Reference Sheet

### Area

<table>
<thead>
<tr>
<th>Shape</th>
<th>Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triangle</td>
<td>( A = \frac{1}{2}bh )</td>
</tr>
<tr>
<td>Rectangle</td>
<td>( A = \ell w )</td>
</tr>
<tr>
<td>Trapezoid</td>
<td>( A = \frac{1}{2}h(b_1 + b_2) )</td>
</tr>
<tr>
<td>Parallelogram</td>
<td>( A = bh )</td>
</tr>
<tr>
<td>Circle</td>
<td>( A = \pi r^2 )</td>
</tr>
</tbody>
</table>

#### KEY

- \( b \) = base
- \( h \) = height
- \( \ell \) = length
- \( w \) = width
- \( r \) = radius
- \( A \) = area
- \( C \) = circumference
- \( B \) = area of base
- \( S.A. \) = surface area
- \( V \) = volume

**Use 3.14 or \( \frac{22}{7} \) for \( \pi \)**

### Circumference

\( C = \pi d = 2\pi r \)

### Surface Area

1. Surface area of a prism or pyramid equals the sum of the areas of all faces.

2. Surface area of a cylinder equals the sum of the areas of the bases and the area of its rectangular wrap.

\[ S.A. = 2(\pi r^2) + 2(\pi r)h \]

3. Surface area of a sphere: \( S.A. = 4\pi r^2 \)

### Volume

1. Volume of a prism or cylinder equals the Area of the Base \( (B) \) times the height \( (h) \).
   \[ V = Bh \]

2. Volume of a pyramid or cone equals \( \frac{1}{3} \) times the Area of the Base \( (B) \) times the height \( (h) \).
   \[ V = \frac{1}{3} Bh \]

3. Volume of a sphere: \( V = \frac{4}{3} \pi r^3 \)
Pythagorean theorem:  \( a^2 + b^2 = c^2 \)

Simple interest formula:  \( I = prt \)

Distance formula:  \( d = rt \)

Given a line containing points \((x_1, y_1)\) and \((x_2, y_2)\)

- Slope of line
  \[
  m = \frac{y_2 - y_1}{x_2 - x_1}
  \]

- Distance between two points
  \[
  d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}
  \]

- Midpoint between two points
  \[
  \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)
  \]

Conversions

- 1 yard = 3 feet = 36 inches
- 1 mile = 1,760 yards = 5,280 feet
- 1 acre = 43,560 square feet
- 1 hour = 60 minutes
- 1 minute = 60 seconds

- 1 liter = 1000 milliliters = 1000 cubic centimeters
- 1 meter = 100 centimeters = 1000 millimeters
- 1 kilometer = 1000 meters
- 1 gram = 1000 milligrams
- 1 kilogram = 1000 grams

- 1 cup = 8 fluid ounces
- 1 pint = 2 cups
- 1 quart = 2 pints
- 1 gallon = 4 quarts
- 1 pound = 16 ounces
- 1 ton = 2,000 pounds

Metric numbers with four digits are presented without a comma (e.g., 9960 kilometers). For metric numbers greater than four digits, a space is used instead of a comma (e.g., 12 500 liters).
MATHEMATICS SAMPLE ITEMS

DIRECTIONS: Read each item and select the best response.

1. Identify the correct prime factorization of 96.
   A. $4 \times 4 \times 6$
   B. $2 \times 2 \times 2 \times 4 \times 3$
   C. $2 \times 2 \times 2 \times 2 \times 6$
   D. $2 \times 2 \times 2 \times 2 \times 2 \times 3$

2. The regular price of a computer is $1200 and the regular price of a printer is $300. An electronics store has a promotion that offers a 40% discount on the printer when the computer is purchased at the regular price. What is the total cost of the computer and the printer at the promotional price?
   A. $1320$
   B. $1380$
   C. $1460$
   D. $1500$

3. A rectangular animal pen will be built using 200 meters of fencing. If one side of the rectangle is 60 meters, find the area of the pen.
   A. 1200 sq m
   B. 1400 sq m
   C. 2400 sq m
   D. 8400 sq m
4. Estimate the area of the shaded figure in the diagram.

![Diagram with grid and shaded area]

<table>
<thead>
<tr>
<th>Key</th>
<th>1 cm²</th>
</tr>
</thead>
</table>

A. 20 cm²  
B. 50 cm²  
C. 60 cm²  
D. 135 cm²
Triangle PQR shown is a(an)

A. acute triangle.
B. right triangle.
C. obtuse triangle.
D. isosceles triangle.
6. A building 51 feet tall casts a shadow 48 feet long. Simultaneously, a nearby statue casts a shadow of 16 feet. How tall is the statue?
   A. 17 ft  
   B. 19 ft  
   C. 23 ft  
   D. 153 ft  

7. Select the missing number in the following sequence.
   3, 8, _____, 18, 23  
   A. 13  
   B. 14  
   C. 15  
   D. 17  

8. If $2(b + 1) < -6$, then
   A. $b < -4$  
   B. $b > -4$  
   C. $b < -\frac{7}{2}$  
   D. $b > -\frac{7}{2}$
9. If the company would like to give the impression that its employees are highly paid, which salary statistics should it use?

**Employee Salaries**

<table>
<thead>
<tr>
<th>Title</th>
<th>Yearly salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>$120,000</td>
</tr>
<tr>
<td>Office manager</td>
<td>40,000</td>
</tr>
<tr>
<td>Foreperson</td>
<td>60,000</td>
</tr>
<tr>
<td>Laborer 1</td>
<td>15,000</td>
</tr>
<tr>
<td>Laborer 2</td>
<td>15,000</td>
</tr>
<tr>
<td>Laborer 3</td>
<td>15,000</td>
</tr>
<tr>
<td>Laborer 4</td>
<td>15,000</td>
</tr>
</tbody>
</table>

A. minimum  
B. mode  
C. median  
D. mean
10. A coin is flipped 3 times. What is the probability of getting 3 tails in a row?

A. $\frac{1}{8}$
B. $\frac{1}{6}$
C. $\frac{1}{4}$
D. $\frac{1}{2}$
There is a new British graffiti artist whose unusual methods are attracting attention. Rather than spray-painting words and images onto public surfaces, Paul Curtis creates a unique brand of reverse graffiti by cleaning the surfaces. Equipped with nothing more than a shoe brush, a bucket of water, and plenty of elbow grease, Curtis creates art using the space he has cleaned. Reactions have been mixed: Is this a new form of vandalism, innovative art, or a public service? Although Curtis's methods are unorthodox, the questions they inspire about the value and legitimacy of graffiti have been asked for years.

It is all too easy to look at graffiti and see little more than a dirty wall. Yet, while many people associate graffiti with rundown neighborhoods, street gangs, and criminal activity, the reality is much more complex. Modern graffiti first began to appear in the late 1960s when political activists in the peace movement used it to spread their views. More recently, it has been linked to both punk rock and urban/hip-hop cultures, which use it for similar purposes.

Although classifying graffiti as "art" was once a radical notion, the mainstream success of artists such as Jean-Michel Basquiat and Keith Haring has helped legitimize the idea. Both men created art on public surfaces long before their work was used to adorn coffee mugs, calendars, and t-shirts. Even though they bring more attention to the community, such artists are sometimes labeled as "sell-outs" by other graffiti artists and ridiculed for their role in the commercialization of street culture. To those who attach significance to the risks taken by artists, graffiti art loses much of its meaning when detached from the streets and created in an environment where getting caught is no longer a threat.

Rather than waiting for graffiti art to land in a coffee-table book or on the walls of a museum, more people should embrace it in its natural environment. It is ironic that some of the same cities that spend many thousands of dollars on public art initiatives also spend huge sums on graffiti cleanup. Think of the money that could be saved if even a small portion of the graffiti was permitted to remain as public art. Better yet, cities might follow the example of Montreal, Canada, which has commissioned so many public works by graffiti artists that the distinction between legal and illegal art has been permanently blurred. Developments such as this provide hope that more people will begin to realize that while graffiti may sometimes be vandalism, it is also a colorful and unique form of artistic expression.

1. According to the passage, Paul Curtis creates art by using
   A. water.
   B. animal fat.
   C. shoes.
   D. spray paint.
2. In the fourth paragraph, the word *commissioned* means
   A. destroyed.
   B. ordered.
   C. honored.
   D. altered.

3. The primary purpose of this passage is to
   A. inspire artists to express themselves through graffiti.
   B. entertain with interesting stories about graffiti art.
   C. identify the origins of graffiti art in North America.
   D. convince readers that graffiti is a legitimate form of art.

4. This passage uses an overall organizational pattern that
   A. summarizes the achievements of graffiti artists.
   B. describes information that supports one perspective of graffiti art.
   C. outlines the historical development of graffiti art.
   D. classifies characteristics shared by most works of graffiti art.

5. What does the following sentence from the third paragraph suggest about graffiti artists?
   "Even though they bring more attention to the community, such artists are sometimes labeled as 'sell-outs' by other graffiti artists and ridiculed for their role in the commercialization of street culture."
   A. Some graffiti artists are opposed to the idea of selling graffiti art.
   B. There is a high demand in the marketplace for graffiti artists.
   C. Graffiti artists have little respect for more conventional forms of art.
   D. Graffiti artists no longer are an important element of street culture.
The American Symphony League has only one requirement of the hotels that host its annual convention: no background music. Ask members of the organization why, and they will vigorously explain that they want to be sensitized to music, not desensitized by the lilting rhythms and soothing melodies so often found in hotel lobbies. Whether it is referred to as elevator music, as mood music, or by the brand name Muzak, there is little question that this type of music strikes a discordant note with many listeners. Some say that it reminds them of a trip to the dentist's office, while others merely cringe at hearing their favorite songs re-recorded as symphonic mush. Through it all, however, background music has thrived as one of the most widely heard types of music in the world.

Given its seeming uniformity, it is easy to forget that background music is typically used for very specific purposes. One of its first uses was, of course, on elevators. Grinding and clicking from one floor to another, the first elevators made many passengers uneasy. Operators soon discovered that soft, comforting music was helpful for reducing motion sickness and coaxing the hesitant to step inside. Not long after, background music companies began marketing their products to businesses and places of recreation with the idea that music could enhance the moods of both workers and consumers. Muzak was the clear leader in this field, and the company soon perfected program formatting that addressed the needs of clients during each hour of the day. A typical restaurant program progressed from cheerful wake-up melodies in the morning, through light classical sounds at lunch, cocktail music in the afternoon, elegant tones during dinner, and dance music of increased tempo and volume in the late evening hours. By the early 1940s, this same program could be heard in over 1,000 restaurants.

An unfortunate backlash against background music began in the following decade. By that time, the soothing harmonies could be heard in restaurants, offices, trains, planes, and on phone lines across the world. People began to complain that playing prerecorded music in public places was a violation of their privacy. A lawsuit that protested the music and advertisements on public buses in Washington, D.C., made it all the way to the Supreme Court. Although the Court ruled in favor of the city, Justice William O. Douglas wrote a strongly worded dissent that defended the right to be left alone.

Today, many people are thankful that background music weathered this storm of criticism. They are even more thankful that it has evolved from its early form. Still heard by as many as 100 million people a day, the music is much more likely to sound like it is coming from a radio station than from a wilted orchestra. Meanwhile, the Muzak corporation is working to redefine its image with an edgy new Web site and playlists that heavily favor pop songs. After seven decades, people may finally be ready for background music to take a bold step forward.
6. The author's primary purpose in paragraph 2 of the passage is to
   A. describe the different uses of background music.
   B. analyze the marketing strategies of background music companies.
   C. examine how background music is produced.
   D. explain why many people enjoy background music.

7. Which of the following is used by the author as an example of the unpleasant associations that listening to background music evokes in certain people?
   A. traveling by plane
   B. going to work
   C. visiting a dentist's office
   D. riding in an elevator

8. The organizational plan used by the author in paragraphs 2–4 can best be described as
   A. order of importance.
   B. spatial order.
   C. comparison and contrast.
   D. chronological order.

9. Which sentence is a statement of opinion?
   A. The American Symphony League has only one requirement of the hotels that host its annual convention: no background music.
   B. By the early 1940s, this same program could be heard in over 1,000 restaurants.
   C. An unfortunate backlash against background music began in the following decade.
   D. A lawsuit that protested the music and advertisements on public buses in Washington, D.C., made it all the way to the Supreme Court.
10. What is the relationship between these two sentences from the passage?

Sentence 1: People began to complain that playing prerecorded music in public places was a violation of their privacy. (paragraph 3)
Sentence 2: A lawsuit that protested the music and advertisements on public buses in Washington, D.C., made it all the way to the Supreme Court. (paragraph 3)

A. Sentence 2 restates a point made in sentence 1.
B. Sentence 2 relates a consequence of a development described in sentence 1.
C. Sentence 2 clarifies a point made in sentence 1.
D. Sentence 2 describes a solution to a problem stated in sentence 1.
### Answer Keys

#### English Language Skills

<table>
<thead>
<tr>
<th>Question Number</th>
<th>Correct Response</th>
<th>Competency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>A</td>
<td>1</td>
</tr>
<tr>
<td>2.</td>
<td>B</td>
<td>2</td>
</tr>
<tr>
<td>3.</td>
<td>C</td>
<td>2</td>
</tr>
<tr>
<td>4.</td>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>5.</td>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>6.</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>7.</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>8.</td>
<td>C</td>
<td>4</td>
</tr>
<tr>
<td>9.</td>
<td>B</td>
<td>4</td>
</tr>
<tr>
<td>10.</td>
<td>A</td>
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</tbody>
</table>

#### Mathematics

<table>
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<th>Question Number</th>
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<td>3.</td>
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<td>5.</td>
<td>C</td>
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<td>6.</td>
<td>A</td>
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<td>7.</td>
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<td>4</td>
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<td>8.</td>
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<td>4</td>
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<tr>
<td>9.</td>
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## Reading

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<tr>
<th>Question Number</th>
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<tr>
<td>1.</td>
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<tr>
<td>6.</td>
<td>A</td>
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<td>7.</td>
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<td>2</td>
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<tr>
<td>10.</td>
<td>B</td>
<td>2</td>
</tr>
</tbody>
</table>
Annotated Bibliography

The annotated bibliography that follows includes basic references that you may find useful in preparing for the exam. Each resource is linked to the competencies and skills found in Section 4 of this guide.

This bibliography is representative of the most important and most comprehensive texts pertaining to the competencies and skills. The Florida Department of Education does not endorse these references as the only appropriate sources for review; many comparable texts currently used in teacher preparation programs also cover the competencies and skills that are tested on the exam.

ENGLISH LANGUAGE SKILLS


   A provocative and timely collection of rhetorically arranged essays by professional and student writers. Stimulates critical thinking on ethical, social, and political issues. Useful for review of competencies 1, 2, 3, and 4.

   The basics of composing solid paragraphs and essays in preparation for freshman composition. Includes finding one’s own writing process, writing essays based on one’s own experience and perceptions, and writing essays involving texts and research. Emphasizes grammar, proofreading, and peer review. Useful for review of competencies 1, 2, 3, and 4.

   Begins with verb connections, basic sentence patterns, and the internal workings of the sentence and continues to the more complex structures and relationships of the language. Includes a survey of college writing with special emphasis on techniques of invention and their application to typical college writing assignments. Useful for review of competencies 1, 2, 3, and 4.

   An authoritative, easy-to-use reference to answer most questions about grammar, writing, or research. Useful for review of competencies 1, 3, and 4.

   A widely cited compendium on the writing process, document design, word choice, punctuation, mechanics, critical thinking, research writing, and grammar basics. Useful for review of competencies 1, 2, 3, and 4.
   Promotes the idea that grammar is best taught in the context of student writing. Useful for review of competency 4.

    Covers phases of the writing process such as rewriting for focus, structure, and genre. Includes edited sample papers. Useful for review of competencies 1, 2, 3, and 4.

    A handbook with color-coded tabbed sections, movable note cards and bookmarks, a grammar section, and an extensive index. Useful for review of competencies 1, 2, 3, and 4.

    Addresses the multiple dimensions of a writer’s work, including language, reading, argument, research, technology, and visual learning. Useful for review of competencies 1, 2, 3, and 4.

    A classic language arts textbook for grades 7–12. Introduces writing and composition skills, rules of grammar, usage, punctuation, and capitalization. Useful for review of competencies 1, 3, and 4.

MATHEMATICS

   The final component in a program to ease the transition from arithmetic into algebra. Contains materials to help teachers plan and pace lessons. Useful for review of competencies 1 and 4.
   A comprehensive, skills-based resource emphasizing active and collaborative learning. Useful for review of competencies 1, 2, 3, 4, and 5.

   Helps Algebra I students connect to essential mathematical concepts with integrated print and technology support. Useful for review of competencies 1 and 4.

   Meaningful content and pedagogy to arm education students with the tools they will need to become excellent elementary or middle school teachers. Focuses on professional development and connecting the material to the classroom. Useful for review of competencies 1, 2, 3, 4, and 5.

   Promotes mathematical mastery through critical thinking and applied strategies, including use of the calculator as a tool for exploration and implementation. Emphasizes data reading and interpreting statistical information summarized in tables, bar graphs, and line graphs. Useful for review of competencies 1, 2, 3, 4, and 5.

   Introduces to students with limited mathematical backgrounds the same tools, techniques, and interpretive skills that working statisticians rely on. Useful for review of competencies 1 and 5.
   A detailed description of the exam plus five practice reading tests and five practice mathematics tests with answers and examples. Useful for review of competencies 1, 2, 3, 4, and 5.

   Enables students to learn theorems and definitions by performing constructions, measuring figures, relating patterns and properties, and discussing findings. Uses real-world applications, puzzles, and extensions to keep students involved and thinking. Useful for review of competency 3.

   Four key aspects of teaching mathematics: the nature of mathematics as a science of pattern and order, an understanding of how children learn mathematics, a problem-solving view of teaching mathematics, and specific methods for integrating assessment with instruction. Useful for review of competencies 1, 2, 3, 4, and 5.

    Addresses selected topics without compromising coverage of critical prerequisites. Useful for review of competencies 1, 2, 3, 4, and 5.

**READING**

   An instructional process to support students in gaining meaning from text. Explicit examples and 25 classroom cases. Useful for review of competencies 1 and 2.
   Covers oral language, phonemic awareness, word recognition, vocabulary, fluency, comprehension, and writing. Organizes focused interventions around a classroom-tested framework for assessing students, diagnosing their needs, teaching them based on findings, and reassessing them to determine whether more instruction, practice, or application is needed. Useful for review of competencies 1 and 2.

   Reinforces essential reading skills. Offers college-level reading selections from multiple disciplines, writing prompts, and quizzes at a companion Web site. Useful for review of competency 2.

   Focuses on teaching comprehension through relevance and high-interest material. Stresses the importance of activating background knowledge. Includes a new section on content area reading for use across the curriculum. Useful for review of competency 2.

   Six strategy cluster books organized around fundamental comprehension strategies: Monitor Comprehension, Activate and Connect, Ask Questions, Infer Meaning, Determine Importance, and Summarize and Synthesize. Contains 26 lessons structured as a framework on which educators can build their own lessons. Useful for review of competencies 1 and 2.
   Addresses emergent literacy, the reading-writing connection, alternative assessment strategies, teacher effectiveness, teaching in a multicultural society, and literature-based reading. Contains practical instructional activities and examples, lesson plans, and classroom activities. Useful for review of competencies 1 and 2.

   Covers topics from vocabulary and comprehension to reading instruction in the classroom. Addresses two themes that have emerged since Volumes I and II were published: (1) broadening the definition of reading, and (2) broadening the reading research program. Useful for review of competencies 1 and 2.

   Devotes sections to knowledge of reading and writing research and assessment practices, detailed discussions, and examples of assessment practices. Useful for review of competencies 1 and 2.

   Links textbook readings to news in the popular press. Includes material on critical thinking and the Internet. Also includes material at various reading levels from multiple academic disciplines. Useful for review of competencies 1 and 2.

   Designed for intermediate and advanced reading courses. Features a variety of selections and excellent coverage of critical reading skills. Useful for review of competencies 1 and 2.
   Integrates reading and writing as tools for learning in the content areas. Incorporates nonfiction and fiction literature throughout. Useful for review of competency 2.

   An active learning tool complete with real-world examples and research-based practices. Addresses reading, writing, speaking, and listening processes to support learning across the curriculum. Useful for review of competencies 1 and 2.
Additional Information

Please visit the following Web site to review FTCE registration, to obtain an FTCE/FELE registration bulletin, and to find additional FTCE information, including upcoming test dates, test locations, and passing scores.

http://www.fldoe.org/asp/ftce