

# Florida Department of Education Specifications for the 2014-15 Florida Instructional Materials Adoption for Physical Education

## Introduction

This document specifies the requirements for the 2014-2015 Florida instructional materials adoption for physical education. Publishers should review this information carefully. The criteria contained in this document will serve as the basis for the evaluation of instructional materials bid for adoption.

The Florida physical education call for adoption is comprised of the courses listed in Table 1 of this document. Each course has an updated course description available online at [www.cpalms.org](http://www.cpalms.org) (the course titles in Table 1 link to the course page in CPALMS).

- Materials bid for adoption must clearly and completely align to each of the standards included in the applicable course description to be deemed acceptable for adoption.
- Materials will be thoroughly evaluated to ensure the content is accurate, appropriately rigorous, and comprehensive in their coverage of each of the standards in the course description and the additional criteria outlined in this document.

This adoption is for materials to be utilized in the classroom in the 2015-2016 academic year and later. As such, publishers must be sure to select the course description for the latest available academic year. The latest version of each course description, which should be utilized for developing materials for the 2014-2015 physical education adoption, is indicated in Table 1 below.

Publishers and manufacturers of instructional materials shall provide electronic access to sample copies to the Department and each state instructional materials reviewer and subsequent district reviewer, per section 1006.38(2), Florida Statutes. Only the student and teacher editions of the major tool, in electronic or digital format as defined in Section 1006.29 (3), Florida Statutes, will be reviewed for adoption. Publishers are strongly encouraged to develop samples which are easily accessible and navigable by reviewers. Difficulty in accessing or navigating the samples may be taken into consideration by reviewers when making their recommendation for or against adoption.

Furthermore, samples which have recurrent problems or issues which hinder or prevent reviewers from accessing the materials may be disqualified from the bid process. The Department expects samples and materials developed for adoption to be thoroughly tested and ready for review. Samples with issues which delay or prevent evaluation may be deemed as deficient, and therefore, not acceptable as the basis of review for adoption.

## **2014-15 Physical Education Course Call**

Florida will only accept bids for materials designed to serve as the major tool of instruction (along with ancillary materials) for the courses listed in Table 1 below.

**Table 1:**

<b>Course Number</b>	<b>Grade Level</b>	<b>Course Category</b>	<b>Course Title</b>	<b>Course Version</b>
3026010	9-12	Physical Education	<a href="#">Health Opportunities Through Physical Education (HOPE)</a>	2013 and beyond
1501300	9-12	Physical Education	<a href="#">Personal Fitness</a>	2013 and beyond

## **Overview of Next Generation Sunshine State Standards for Physical Education**

### **K-12 Physical Education Standards:**

Standard 1: Demonstrate competency in many, and proficiency in a few, movement forms from a variety of categories.

Standard 2: Identify, analyze and evaluate movement concepts, mechanical principles, safety considerations and strategies/tactics regarding movement performance in a variety of physical-activities.

Standard 3: Participate regularly in physical-activity.

Standard 4: Develop and implement a personal fitness program to achieve and maintain a health-enhancing level of physical fitness.

Standard 5: Exhibit responsible personal and social behavior that respects self and others in physical-activity settings.

Standard 6: Value physical-activity for health, enjoyment, challenge, self-expression and/or social interaction.

### **2012 Review/Revision of Next Generation Sunshine State Standards for Physical Education**

The purpose of the review of the Next Generation Sunshine State Standards (NGSSS) for physical education was to ensure that the content of the standards reflect what a student should know and be able to do as the result of a quality physical education program. This review was conducted electronically beginning in March 2012, and was completed in July 2012. The review team consisted of four committees, with each committee focused on one strand within the NGSSS. This allowed for a thorough and detailed K-12 review of the benchmarks within each strand.

Florida's NGSSS are organized around four strands that define the major elements of quality physical education. These strands are relevant across all grade levels and provide unifying threads of understanding.

- Movement Competency (Strand M)

- Cognitive Abilities (Strand C)
- Lifetime Fitness (Strand L)
- Responsible Behaviors and Values (Strand R)

The NGSSS for physical education are organized by grade-level for grades K-8 and remain in a cluster for grades 9-12. Florida’s NGSSS for physical education are based upon established physical education theories and evidence-based research. The standards are derived from the national standards for physical education and provide the framework for alignment of curriculum, assessment and instruction.

Every student should have the opportunity to participate in quality physical education. Helping students develop the knowledge and skills to select and participate in physical-activity safely, competently and with personal satisfaction is a responsibility of physical education. It is the unique role of quality physical education programs to help all students develop health-related fitness, physical competence, cognitive understanding and positive attitudes about physical-activity so that they can adopt healthy and physically-active lifestyles. The National Association for Sport and Physical Education (NASPE), Centers for Disease Control and Prevention, the American Academy of Pediatrics, the American Heart Association, the U.S. Department of Health and Human Services, the U.S. Department of Education and the President’s Council on Physical Fitness and Sport all support the need for physical-activity and high-quality physical education in schools (NASPE, 2010).

### **Benchmark Coding Scheme for Physical Education**

PE.	5.	M.	1.	1
Subject	Grade-Level	Strand	Standard	Benchmark

### **Overview of Next Generation Sunshine State Standards for Health Education**

Florida’s Next Generation Sunshine State Standards (NGSSS) for Health Education are based upon established health behavior theories, models, and evidence–based research, as well as best practices. The 2012-13 revision cycle yielded the reformatted eight standards in K-12 progression and adopted the following corresponding National Health Education Skills:

- 1. Core Concepts-** the ability to comprehend concepts related to health promotion and disease prevention;
- 2. Accessing Information-** the ability to access appropriate, useful and health enhancing information (using a variety of reliable resources);
- 3. Internal and External Influences-** the ability to determine sources of influences: family, peers, teachers, other adults/professionals, media (advertisements, magazines, newspaper, internet sources, television, etc.), culture, etc.;

4. **Interpersonal Communication**- the ability to appropriately and successfully use verbal and non-verbal, active listening skills;
5. **Decision Making**- the ability to use a process by which problems are well thought out and a health enhancing result occurs, includes consequences (positive and negative) for actions taken;
6. **Goal Setting**- the ability to set and achieve reachable short and long term health enhancing targets;
7. **Self-Management**- the ability to make self-enhancing health decisions; and
8. **Advocacy**- the ability to “advocate” for health enhancing services, policies, programs, assistance, etc. primarily impacting family, peers, school, community.

The Health Education skills are relevant and coalesced across all grade levels to provide specificity and a deeper understanding. The standards and benchmarks focus on yearly instruction to ensure that students gain adequate exposure to health information and practices. Students advancing through the grades are expected to meet each year’s grade specific standards and retain or further develop skills and understandings mastered in preceding grades. The Standards are connected by Strands. *C=Health Literacy Concepts, B=Health Literacy Responsible Behavior, P=Health Literacy Promotion Standards.*

#### **Benchmark Coding Scheme for Health Education**

HE.	5.	C.	1.	1
Subject	Grade-Level	Strand	Standard	Benchmark

#### **Integrating Content within Physical Education Courses**

As stated in legislation, health education content should be integrated throughout the duration of the high school physical education courses. Health education content and topics should not be taught in isolation, and should be integrated with physical education topics and content where there is a natural fit. In addition, English/language arts and mathematics content included in the physical education course descriptions should be integrated where applicable with physical education and health education content.

Student knowledge of healthy lifestyles is enhanced through integration of all learning domains: cognitive, affective, and psychomotor. The inclusion of health education, English/language arts, and mathematics content in physical education courses must include the integration of physical activity and cognitive concepts. Physical education content and health education content should not be separated by topic or content area. One example of content that is a natural fit to integrate physical education, health education, English/language arts, and mathematics would be when students design a personal fitness program (PE.912.L.4.1). Another example would be the link between physical activity, mental health, and effective stress management (PE.912.L.3.3).

If you have questions relating to physical education standards or course requirements please contact Nichole Wilder at [Nichole.Wilder@fldoe.org](mailto:Nichole.Wilder@fldoe.org).

### **Relevant Florida Statutes Impacting Physical Education**

#### 1003.41: *Next Generation Sunshine State Standards*

- Visual and performing arts, **physical education**, health, and foreign language standards must establish specific curricular content and include distinct grade level expectations for the core content knowledge and skills that a student is expected to have acquired by each individual grade level from kindergarten through grade 5. The standards for grades 6 through 12 may be organized by grade clusters of more than one grade level.

#### 1003.428: *General Requirements for High School Graduation*

- One credit in physical education to include integration of health.

#### 1003.42: *Required Instruction*

- Comprehensive health education that addresses concepts of community health; consumer health; environmental health; family life, including an awareness of the benefits of sexual abstinence as the expected standard and the consequences of teenage pregnancy; mental and emotional health; injury prevention and safety; Internet safety; nutrition; personal health; prevention and control of disease; and substance use and abuse. The health education curriculum for students in grades 7 through 12 shall include a teen dating violence and abuse component that includes, but is not limited to, the definition of dating violence and abuse, the warning signs of dating violence and abusive behavior, the characteristics of healthy relationships, measures to prevent and stop dating violence and abuse, and community resources available to victims of dating violence and abuse.

## **Major Priorities for Instructional Materials - Content, Presentation, Learning**

The priorities as described in this specification document were developed from research findings about what makes instructional materials effective. These priorities have undergone review by individuals who have served on state and district committees, by curriculum specialists, by instructional designers, by evaluation specialists, and by administrators of the statewide adoption system.

Instructional materials must be effective in three major priority areas: content, presentation, and learning. The following sections describe essential features for each of these priority areas. These features generally apply to all formats of instructional materials, whether print or other media/multiple media formats.

### **Content**

Some features of content coverage have received progressively more attention over the past decade. These features include:

- A. Alignment with Curriculum Requirements**
- B. Level of Treatment of Content**
- C. Expertise for Content Development**
- D. Accuracy of Content**
- E. Currentness of Content**
- F. Authenticity of Content**
- G. Multicultural Representation**
- H. Humanity and Compassion**

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### **A. ALIGNMENT WITH CURRICULUM REQUIREMENTS**

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**Content must align with the state’s standards for the subject, grade level, and learning outcomes. See Sections 1006.34(2)(b); 1006.38(3)(b); 1006.31(2), Florida Statutes.**

**Correlations:** Publishers are expected to provide correlation reports in the provided form to show exactly where and to what extent (mentioned or in-depth) the instructional materials cover each required standard.

**Scope:** The content should address Florida’s required curriculum standards for the subject, grade level, and learning outcomes, including thinking and learning skills.

**Completeness:** The content of the major tool should be complete enough to stand on its own. To be useful for classroom instruction, instructional materials must be adaptable to the instructional goals and course outlines for individual school districts, as well as the state standards. Content should have no major omissions in the required content coverage and be

free of unrelated facts and information that would detract from achievement of Florida's standards.

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## **B. LEVEL OF TREATMENT OF CONTENT**

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**The level of complexity or difficulty of content must be appropriate for the standards, student abilities and grade level, and time periods allowed for teaching. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

**Objectives:** Content should be simple, complex, technical, or nontechnical enough for the intended objectives.

**Students:** Content should be developmentally appropriate for the age and maturity level of the intended students. It should contain sufficient details for students to understand the significance of the information presented and to engage in reflection and discussion.

**Time:** The level of complexity or difficulty of content also should allow for its coverage during the time periods available for teaching the subject.

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## **C. EXPERTISE FOR CONTENT DEVELOPMENT**

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**Expertise in the content area and in education of the intended students must be reflected in the authors, reviewers, and sources that contributed to the development of the materials. See Section 1006.38(14), Florida Statutes.**

**Authorship:** The authors, consultants, and reviewers must have actually contributed to the development of the instructional materials and should have credentials that reflect expertise in the subject area, course, course category, grade level, pedagogy, education, teaching, or classroom instruction. Qualifications may include expertise in educational psychology or instructional design.

**Sources:** Primary and secondary sources should reflect expert information for the subject, such as relevant data from research journals, and other recognized scientific sources. The type of sources considered appropriate will vary with the particular subject area.

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## **D. ACCURACY OF CONTENT**

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**Content must be accurate in historical context and contemporary facts and concepts. See Sections 1006.38(8); 1006.31(2)(e); 1006.35, Florida Statutes.**

**Objectivity:** Content that is included in the materials should accurately represent the domain of knowledge and events. It should be factual and objective. It should be free of mistakes, errors, inconsistencies, contradictions within itself, and biases of interpretation. It should be free of the biased selection of information. Materials should distinguish between facts and possible interpretations or opinions expressed about factual information. Visuals or other elements of instruction should contribute to the accuracy of text or narrative.

**Representativeness:** The selection of content should not misrepresent the domain of knowledge and events. It should include the generally accepted and prevalent theories, major concepts, laws, standards, and models used within the discipline of the subject area.

**Correctness:** Presentation of content should be free of typographical and visual errors. It should include correct grammar, spelling, linguistics, terminology, definitions, descriptions, visuals, graphs, sounds, videos, and all other components of the instructional materials.

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## **E. CURRENTNESS OF CONTENT**

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**Content must be up-to-date for the academic discipline and the context in which the content is presented. See Sections 1006.38(8); 1006.31(2)(e), Florida Statutes.**

**Dates or editions:** Copyright dates for photographs and other materials and editions should suggest sufficient currentness of content. Copyright dates and editions serve as indicators about currentness. However, neither the copyright date nor the edition guarantees currentness. Subsequent editions should reflect more up-to-date information than earlier editions.

Informed examination of the text, narrative, and visuals contained in the materials provides the most direct information about currentness of the materials.

**Context.** Text or narrative, visuals, photographs, and other features should reflect the time periods appropriate for the objectives and the intended learners.

- Sometimes context should be current. For example, a photograph used to show stages of human growth and development will be more relevant when the clothing, hairstyles, and activities reflect present-day styles.
- Sometimes context should be historical. For example, illustrations and photographs of historical events should reflect the historical time period.
- Sometimes context should be both current and historical. For example, historic images alongside modern ones would convey changes in styles over time.
- At all times the context should be relevant to the learner, to the Curriculum Frameworks, and to the concept presented.

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## **F. AUTHENTICITY OF CONTENT**

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**Content should include problem-centered connections to life in a context that is meaningful to students. See Sections 1006.31(2)(e); 1006.34(2)(b); 1003.42, Florida Statutes.**

**Life connections:** Instructional materials should include connections to the student's life situations in order to make the content meaningful. Students might be expected to deal with time constraints, consider risks and trade-offs in decision-making, and work with teams. Connections may be made to situations of daily home life, careers, vocation, community events and services, and leisure or recreation.

**Interdisciplinary treatment:** Instructional materials also should include interdisciplinary connections in order to make content meaningful. Examples of situations that connect a variety



of subject areas include building projects, playing sports, retrieving information or objects, balancing budgets, creating products, and researching information. In addition to subject area connections, instructional materials should connect the course or course category to other disciplines. Examples of approaches to interdisciplinary connections include: explanations and activities for using skills and knowledge from other academic disciplines; assignments that require students to relate learning from other disciplines rather than to isolate knowledge or skills; the focus on common themes across several subject areas (infusion, parallel, transdisciplinary, or multidisciplinary instruction).

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## **G. MULTICULTURAL REPRESENTATION**

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**Portrayal of gender, ethnicity, age, work situations, and various social groups must include multicultural fairness and advocacy. See Sections 1003.42; 1006.31(2)(a); 1006.34(2)(b), Florida Statutes.**

**Multicultural fairness:** Through balanced representation of cultures and groups in multiple settings, occupations, careers, and lifestyles, the materials should support equal opportunity without regard for age, color, gender, disability, national origin, race, or religion. It is not the number of pages devoted to diversity, equity, or work roles, but the substance of what is stated and portrayed that matters most. For this reason, it can be misleading to count the number of pages or illustrations devoted to a social issue or group. It is more important to focus on the integration of social diversity throughout a set of instructional materials.

In addition to balanced representations, the portrayal of individuals and situations must exclude biases and stereotypes. These portrayals must promote an understanding and appreciation of the importance and contributions of diverse cultures and heritage.

**Multicultural advocacy:** The understanding and appreciation of multiple cultures extends beyond fair representation. It involves embracing a multicultural context, not just through pictures, but through information about ways to honor differences and deal with conflicts, promote a positive self-image for members of all groups, and provide for the development of healthy attitudes and values.

Effective treatment of multicultural issues requires consideration of the age and ability levels of students and whether or not it is appropriate to include multicultural issues in the study of a particular topic, such as the memorization of a formula or equation. Overall, however, materials should reflect both multicultural fairness and advocacy.

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## **H. HUMANITY AND COMPASSION**

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**Portrayal of the appropriate care and treatment of people and animals must include compassion, sympathy, and consideration of their needs and values and exclude hard-core pornography and inhumane treatment. See Sections 1003.42; 1006.31(2)(c); 1006.34(2)(b), Florida Statutes.**

**Inclusion of compassion:** When providing examples in narrative or visuals, materials sometimes depict the care and treatment of people and animals. Generally, this means showing in some way a measure of compassion, sympathy, or consideration of their needs and feelings.

**Exclusion of inhumanity:** In the context of personal and family values, Florida expressly prohibits material containing *hard-core pornography*. In addition, although the definition of *inhumane treatment* can sometimes appear to be controversial, as in science research, there is general agreement that instructional materials should not advocate any form of inhumane treatment.

As with the evaluation of multicultural representation, it is important to consider the context of the subject and the age and abilities of the students.

### **Presentation**

Features of presentation affect the practical usefulness of materials and the ease of finding and understanding content. These features include:

- A. Comprehensiveness of student and Teacher Resources**
- B. Alignment of Instructional Components**
- C. Organization of Instructional Components**
- D. Readability of Instructional Materials**
- E. Pacing of Content**
- F. Ease of Use of Materials**

The following sections describe the presentation features expected for each of these areas.

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#### **A. COMPREHENSIVENESS OF STUDENT AND TEACHER RESOURCES**

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**Resources must be complete enough to address the targeted learning outcomes without requiring the teacher to prepare additional teaching materials for the course. See Sections 1006.29(2); 1006.34(2)(b), Florida Statutes.**

Materials should contain support for students in completing instructional activities and assessments and for teachers in implementing all of the instructional elements. A variety of components can accomplish this purpose. Typically, materials will include test items, study guides, outlines and strategies for teaching, media supplements, learning activities, and projects.

The major components generally expected for student and teacher resources are listed below.

**Student resources:** Student materials typically include the major resource or program with text or narration, visuals, assignments, and assessments. Formats may include print, audio, visual, computer, or other media like CDs, DVDs, PPTs, or software adaptable for Smart Boards.

Effective instructional materials generally integrate the use of reference aids (e.g., index, glossary, maps, bibliography, graphic organizers, and pictures) with the topic being studied. Items that guide students through materials might include clearly labeled materials, directions and explanations, and assignments with menus of choices.

Review and practice activities might include participation activities such as digital simulations, role-playing situations, investigations, and hands-on practice assignments. Review activities might include self-checks or quizzes. Formats might include digital education games, student tutorials, worksheets, workbooks, journals, lab books, lab logs, charts, or maps. Feedback might be in the form of answer keys in student materials or in teacher materials.

Review works best as a logical extension of content, goals, objectives, and lessons, with increased similarity to real-life situations. Review activities should require students to recall or apply previously taught knowledge and skills. Frequent short reviews over time or space improve learning more than a concentrated review. Assignments and stages of small practice improve speed and accuracy.

Other components might include enrichment and remediation activities, additional resources, and tests and assessment tools either in the student materials or in the teacher's guide or edition.

**Teacher resources:** Teacher materials typically include a teacher's edition with the annotated student text and copies of supplementary materials (print or digital) with answer keys, worksheets, tests, diagrams, etc., so that the teacher has to use only one guide. In-service training, workshops, and consulting services should be made available by publishers to support teachers in implementing instructional materials. Professional development is essential to the success of any program, especially when a program contains non-traditional elements. Publishers should clearly indicate the recommended amount and types of professional development that they will provide, and they should work with districts and schools to ensure that teachers receive the support that they need. The materials for the teacher should support continued teacher learning.

Support, guidelines, resources, or features such as the ones described below should be available to help teachers effectively implement materials in classroom and school settings.

- (1) **Components and materials are easy to use:** Examples include clearance, license, or agreement for copying and use of materials; clear description and accurate directions for use of required equipment, facilities, resources, and environment; clearly labeled grade, lesson, content, and other information to identify components; and correct specifications for making instructional media and electronic programs work effectively.
- (2) **Materials support lesson planning, teaching, and learning:** Examples include overview of components and objectives; background for lectures and discussions; technical terminology, and reinforcement and review strategies; scope and sequence chart for activities and planning; sample lesson plans; suggestions for individualized study, small-group and large-group presentations and discussions, school-to-work activities, field or laboratory experiences, safety procedures, and

- other extension activities; suggestions for integrating themes across the subject area or course curriculum and forming connections to other disciplines; and suggestions for parental and community involvement.
- (3) **Suggestions are provided for adapting instruction for varying needs:** Examples include alternative approaches to teaching, pacing, and options for varied delivery of instruction such as media, tools, equipment, and emerging technology; strategies for engaging all students, such as open-ended questions to stimulate thinking, journals, hands-on investigations, explorations, and multisensory approaches; suggestions for addressing common student difficulties or adapting to multiple learning styles; and alternative reteaching, enrichment, and remediation strategies.
  - (4) **Guidelines and resources are provided on how to implement and evaluate instruction:** Examples include answers to work assignments, practice activities, and tests; sample projects or research results; suggestions for using learning tasks for classroom assessment; and guidelines for alternative assessments, such as sample checklists, rubrics, peer or performance assessments, and portfolios.
  - (5) **Resources are provided to use in classroom activities:** Examples include technology resources; lists of resources and references, reading strategies, materials to use for displays or photocopies, classroom management strategies and documentation on how to manage the entire instructional program; and in-service workshops or consultation support from the publisher.
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## **B. ALIGNMENT OF INSTRUCTIONAL COMPONENTS**

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**All components of an instructional package must align with each other, as well as with the curriculum. See Sections 1006.34(2)(b), Florida Statutes.**

All components of an instructional package—teacher’s edition and materials, student’s edition and materials, workbook, supplementary materials, and others—must be integrated and interdependent and must correspond with each other. For example, support materials in the teacher’s edition should align with student activities or assignments. They must match in content and progression of instructional activities.

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## **C. ORGANIZATION OF INSTRUCTIONAL MATERIALS**

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**The structure and format of materials must have enough order and clarity to allow students and teachers to access content and explicitly identify ideas and sequences. See Sections 1006.34(2)(a); 1006.34(2)(b), Florida Statutes.**

Providing an explicit and teachable structure can double the amount of information remembered. Clear organization allows students and teachers to discriminate important pieces of information through skimming, reading, or browsing. Clear organization may be accomplished through a combination of features, but generally not through one feature alone.

**Access to content:** Some features help in searching and locating information, such as a table of contents; pull-down menu or sitemap of content; directions on how to locate information or complete assignments; an index for quick reference; goals and/or objectives, outlines, lists, or checklists for major sections; bibliographies and lists of resources; glossaries for quick access to major terms; and introductions, key concepts and themes, visual cues, illustrations, labeled examples, and labeled reviews or summaries.

**Visible structure and format:** At-a-glance features should signal the organization of content. The following features are desirable:

- Chapter or unit titles and/or frames;
- Headings and subheadings;
- Typographic cues such as bold, italics, or changes in size of type;
- Divisions of content such as borders, boxes, circles, highlighting, visual signposts, icons, or color cues;
- Diagrams, labels, and visuals placed near the related content; and numbering of pages and other components.

Objectives or a content outline may serve a similar purpose by introducing main ideas, providing guideposts to use in searching for key information, or serving as a checklist for self-assessment. Certain types of brief narrative sections also contribute to clear organization. For example, the statement of a clear purpose with content organized around main ideas, principles, concepts, and logical relationships supports the unity and flow of information. Introductions also play a major role when they include anchoring ideas, a list of key points, or conceptual schemes such as metaphors. Summaries also can assist students in understanding the logical order of topics presented.

**Logical organization:** The pattern of organization of the content should be consistent and logical for the type of subject or topic. Patterns of organization may include comparison and contrast, time sequence, cause-effect or problem-solution-effect, concrete to abstract, introduction-review-extension (spiral structure), simple-to-complex, whole-part or part-whole, generalization-examples-review-practice, and conflict-inside view-structure.

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## D. READABILITY OF INSTRUCTIONAL MATERIALS

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**Narrative and visuals should engage students in reading or listening as well as in understanding of the content at a level appropriate to the students' abilities. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

**Language style:** Language style and visual features can influence the readability of materials. Yet, a popular tool for assessing readability has been the use of a *readability formula* of one type or another. These formulas tend to focus only on a few *countable* characteristics of language style such as the length of words, sentences, and/or paragraphs.

Other features are more important in establishing the readability of instructional materials, such as: organized, coherent text language and concepts familiar to the student; language that clarifies, simplifies, and explains information; transition words such as “yet,” “also,” “next,” “for example,” “moreover,” or “however;” other phrases that create logical connections; words with

concrete and specific images; active rather than passive voice; varied sentence structures and avoid both choppy sentences and unnecessary words; and specific questions or directions to guide student attention to visuals or key information.

**Visual features:** Visual features that improve readability include print that is dark and clear, with good contrast paper with clean-cut edges without glare, or computer screens without glare margins wide enough on a page or screen to allow easy viewing of the text chunking (sentence ends on same page as it begins); visuals that are relevant, clear, vivid, and simple enough for students to understand quantity of visuals suitable for the intended students—both lower ability students and higher ability students tend to require more visuals; unjustified text (ragged on the right) rather than justified (lined up on the right); visuals that contain information in a form different from the text; graphs, charts, maps, and other visual representations integrated at their point of use; and colors, size of print, spacing, quantity, and type of visuals suitable for the abilities and needs of the intended students.

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## E. PACING OF CONTENT

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**The amount of content presented at one time or the pace at which it is presented must be of a size or rate that allows students to perceive and understand it. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

It is important that materials contain “bite-size” chunks or blocks of information. The chunks should not be so large, nor the pacing so fast, as to overwhelm students. Neither should the chunks be so small, nor the pacing so slow, as to bore them.

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## F. EASE OF USE OF MATERIALS

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**Both print and other media formats of instructional materials must be easy to use and replace and be durable enough for multiple uses over time. See Sections 1006.29(4); 1006.38(3)(a); 1006.34(2)(b); 1006.38(5); 1006.38(6)(7)(8)(9), Florida Statutes.**

**Warranty:** The actual physical and technical qualities of materials should match the description contained in the publisher’s warranty.

**Use:** Materials must be designed for practical use in the classroom and school environments. They must be easy to identify and store. Teachers and students must be able to access and use the materials. Some of the factors influencing their ease of use include number of components, size of components, packaging, quality of materials, equipment requirements, and cost to purchase or replace components.

The best choice about weight, size, and number of volumes depends on several factors, such as the organization of the content, how well separate volumes may fit time periods for instruction, and the ages of students. Technical production requirements, such as page limits or different types of bindings, may lead to multiple volumes.

Examples of classroom use include repeated copying of consumable materials and repeated use of other materials by students over time. Students should be able to easily use the materials and take home, in a convenient form, most of the material they need to learn for the course.

Technology-rich resources should work properly without the purchase of additional software and run without error. Electronic media for student use should be encoded to prevent accidental or intentional erasure or modification. As with textbooks, electronic media should allow students to easily access and interact with them without extensive supervision or special assistance.

The physical and technical qualities of materials should match with the resources of the schools. Materials such as videos, software, CDs, Internet sites, and transparencies may serve instructional purposes well but have little value unless they can be implemented with the school's equipment. Publishers should include training, in-service, and consultation to help in effective use of the materials.

**Durability:** Students and teachers should be able to have materials that will be durable under conditions of expected use. For example, boxes, books, or other materials should not fall apart after normal classroom use. The packaging and form of materials should be flexible and durable enough for multiple uses over time. Durability includes considerations such as high-quality paper, ink, binding, and cover back, joints, body block and individual pages; worry-free technology that runs properly, with easy to hear, see, and control audio and visuals; and the publisher's guarantee for replacement conditions and agreements for reproduction needed to effectively use the materials.

**Cost:** *Florida's Commissioner of Education will consider the impact of cost in making final decisions.* Cost, while not a direct factor in ease of use, influences the ease with which materials can be obtained or replaced. The impact of cost can be complex to estimate. It requires considering the number of materials available at no additional cost with the purchase of the major program or text, the cost over the adoption period of several years, and the number of free materials to support implementation. Attractive features such as higher quality paper and visuals and greater use of color may escalate cost, without enhancing learning effectiveness.

### **Learning**

The following features have been found to promote learning and apply to most types of learning outcomes.

- A. Motivational Strategies**
- B. Teaching a Few "Big Ideas"**
- C. Explicit Instruction**
- D. Guidance and Support**
- E. Active Participation**
- F. Targeted Instructional Strategies**
- G. Targeted Assessment Strategies**

The following sections describe the learning features expected for each of these priority areas.

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### **A. MOTIVATIONAL STRATEGIES**

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**Instructional materials must include features to maintain learner motivation. See Sections 1006.31(2)(e); 1006.34(2)(b); 1006.38(4), Florida Statutes.**

**Expectations:** Materials should positively influence the expectations of students. Examples include: positive expectations for success; novel tasks or other approaches to stimulate intellectual curiosity; meaningful tasks related to student interests, cultural backgrounds, and developmental levels; activities with relevance to the student’s life; thought-provoking challenges such as paradoxes, dilemmas, problems, controversies, and questioning of traditional ways of thinking; challenges that are neither too difficult to achieve nor so easy that students become bored; hands-on tasks in a concrete context, and images, sounds, analogies, metaphors, or humorous anecdotes; and variety, including the opportunity for students to ask their own questions, set their own goals, and make other choices during learning.

**Feedback:** Materials should include informative and positive feedback on progress. Examples include: frequent checks on progress, including testing; explanatory feedback with information about correctness of responses, how to avoid or correct common mistakes, and/or different approaches to use; and varied forms of assessments (self-assessment, peer assessment, and some learning tasks without formal assessments).

**Appearance:** Materials should have an appearance generally considered attractive to the intended students.

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## **B. TEACHING A FEW “BIG IDEAS”**

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**Instructional materials should thoroughly teach a few important ideas, concepts, or themes. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

**Focus:** Thoroughly teaching a few big ideas provides focus for the learner’s attention. It provides an organizing framework for integrating new information.

**Completeness:** The thorough teaching of a few big ideas may focus on developing a deeper and more complete understanding of the major themes of a discipline, the content of the subject area, relationships to other disciplines, and the thinking and learning skills required for achieving the specified learning outcomes.

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## **C. EXPLICIT INSTRUCTION**

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**Instructional materials must contain clear statements of information and outcomes. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

**Clarity of directions and explanations:** To support success in learning, instructional materials should include clear presentation and explanations of purposes, goals and expected outcomes, concepts, rules, information and terms, models, examples, questions, and feedback.

For example, development of specific thinking skills requires an explicit statement of the particular *thinking skills* to be learned, along with the *strategies* or *steps to follow*. Explicit



instruction for thinking skills might also involve showing *examples* of successful thinking contrasted with examples of poor thinking processes.

Similarly, the development of learning skills requires explicit directions about *when* and *how* to do activities such as note taking, outlining, paraphrasing, abstracting and analyzing, summarizing, self-coaching, memory strategies, persistence, preview and questioning, reading and listening, reflecting, and reciting.

**Exclusion of ambiguity:** Instructional materials should avoid terms and phrases with ambiguous meanings, confusing directions or descriptions, and inadequate explanations.

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## D. GUIDANCE AND SUPPORT

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**Instructional materials must include guidance and support to help students safely and successfully become more independent learners and thinkers. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

**Level:** The type of guidance and support that helps students to become more independent learners and thinkers is sometimes referred to as *scaffolding*. Scaffolding is a solid structure of support that can be removed after a job has been completed. As students gain proficiency, support can diminish, and students can encounter more complex, life-centered problems. Information and activities should provide guidance and support at the level that is needed—no more and no less. Too much support can squelch student interest and too little can lead to failure.

Guidance and support can be accomplished by a combination of the following features: organized routines; advance organizers or models such as condensed outlines or overviews, simplified views of information, visual representations of new information during initial instruction, sample problems, questions to focus on key ideas or important features; examples of solved problems; explanations of how the problems were solved; examples of finished products or sample performances; analogies, metaphors, or associations to compare one idea to another; prompts or hints during initial practice; step-by-step instructions; immediate and corrective feedback on the accuracy of performance of each step or task, on how to learn from mistakes, and on how to reach the correct answer; simulations with features for realistic practice; and opportunities for students to do research; and to organize and communicate results.

**Adaptability:** Guidance and support must be adaptable to developmental differences and various learning styles. For example, young children tend to understand concepts in concrete terms and over-generalize new concepts. Some students need more time, some tend to be more impulsive than reflective, some have trouble distinguishing relevant from irrelevant information, and some have better written than spoken language skills.

Approaches for developmental differences and learning styles of students include a variety of *activities* such as structured and unstructured activities; independent and group work, teacher-directed and discovery learning, visual and narrative instruction, hands-on activities, open-ended activities, practice without extrinsic rewards or grades; simple, complex, concrete, and

abstract examples; variable pacing or visual breaks; and a variety of *modalities* for the various learning styles of students, such as linguistic-verbal, logical-mathematical, musical, spatial, bodily-kinesthetic, interpersonal, intrapersonal, and naturalist.

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## E. ACTIVE PARTICIPATION OF STUDENTS

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**Instructional materials must engage the physical and mental activity of students during the learning process. See Sections 1006.31(2)(e); 1006.34(2)(b), Florida Statutes.**

**Assignments:** Instructional materials should include organized activities of periodic, frequent, short assignments that are logical extensions of content, goals, and objectives.

**Student responses:** Assignments should include questions and application activities during learning that give students opportunities to respond. Active participation of students can be accomplished in a variety of ways. For example, information and activities might require students to accomplish types of activities that include: respond orally or in writing; create visual representations (charts, graphs, diagrams, and illustrations); generate products; generate their own questions or examples; think of new situations for applying or extending what they learn; complete discovery activities; add details to big ideas or concepts from prior knowledge; form their own analogies and metaphors; practice lesson-related tasks, procedures, behaviors, or skills; and/or choose from a variety of activities.

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## F. TARGETED INSTRUCTIONAL STRATEGIES

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**Instructional materials should include the strategies known to be successful for teaching the learning outcomes targeted in the curriculum requirements. See Sections 1006.31(2)(e); 1006.34(2)(b); 1003.42, Florida Statutes.**

**Alignment:** Research has documented the strategies that effectively teach different types of learning outcomes. The learning strategies included in instructional materials should match the findings of research for the targeted learning outcomes. Different types of learning outcomes require different strategies. For example, a strategy for memorizing verbal information might be helpful, but it would not align with the strategies required for learning a concept or for learning how to solve a problem.

**Completeness:** Not only should strategies be aligned, they also should be complete enough to effectively teach the targeted outcomes. For example, while the explanation of a problem-solving method or model would be appropriate, other strategies also would be necessary in order for students to learn how to resolve different types of problems.

**Research summary:** Researchers sometimes use different terms for some similar outcomes. For example, *thinking skills* and *metacognition* refer to some of the same types of skills. The following alphabetical list includes terms as they appeared in research, even though some terms clearly overlap with each other.

attitudes	critical thinking	problem solving
cognitive strategies	insight	procedural knowledge, principles, and rules
comprehension/understanding	metacognition	scientific inquiry
concepts	motor skills	thinking skills
creativity	multiple intelligences	verbal information, knowledge, or facts

The following section summarizes the research findings for each of these types of learning outcomes.

### ***Effective Teaching Strategies***

#### **Teach Attitudes**

- Explain and show consequences of choices, actions, or behaviors.
- Provide relevant human or social models that portray the desired choices, actions, or behaviors.

#### **Teach Reading**

- Monitor and reflect upon the effectiveness of the reading process used.
- Provide appropriate reading strategies.
- Link instruction to effective reading.

#### **Teach Cognitive Strategies**

- Monitor and reflect upon the effectiveness of the reading process used.
- Encourage and/or teach:
  - Organizing and summarizing information;
  - Self-questioning, self-reflection, and self-evaluation;
  - Reference skills; and
  - When and how to use these different skills.

#### **Teach Comprehension/Understanding**

- Outline, explain, or visually show what will be read/learned in a simple form.
- Explain with concrete examples, metaphors, questions, or visual representations.
- Require students to relate new readings to previously learned information.
- Require students to paraphrase or summarize new information as it is read.
- Require students to construct a visual representation of main ideas (map, table, graphs, Venn diagram, etc.).
- Give students opportunities to add details, explanations, or examples to basic information.
- Require application of knowledge or information.

#### **Teach Concepts**

- Provide clear understanding of each concept.
- Point out important and features or ideas.
- Point out examples of the concept, showing similarities and differences.
- Include practice in organizing and classifying concepts.

- Include a wide range of examples in a progressive presentation from simple to more complex examples.
- Emphasize relationships between concepts.

#### **Teach *Creativity***

- Provide examples of creativity.
- Include models, metaphors, and analogies.
- Encourage novel approaches to situations and problems.
- Show and provide practice in turning a problem upside down or inside out or by changing perceptions.
- Encourage brainstorming.
- Include open-ended questions and problems.
- Provide opportunities of ungraded, unevaluated creative performance and behavior.

#### **Teach *Critical Thinking***

- Create conflict or perplexity by using paradoxes, dilemmas, or other situations to challenge concepts, beliefs, ideas, and attitudes.
- Focus on how to recognize and generate proof, logic, argument, and criteria for judgments.
- Include practice in detecting mistakes, false analogies, relevant vs. irrelevant issues, contradictions, discrepant events, and predictions.
- Provide practice in drawing inferences from observations and making predictions from limited information.
- Explain and provide practice in recognizing factors or biases that may influence choice and interpretations such as culture, experience, preferences, desires, interests, and passions, as well as systematic thinking.
- Require students to explain how they form new conclusions and how and why present conclusions may differ from previous ones.

#### **Teach *Inquiry***

- Emphasize technological design as inquiry and include discovery activities.
- Provide opportunities for experimental design.
- Provide opportunities for critical thinking.
- Facilitate the collection, display, and interpretation of data.
- Promote careful observation, analysis, description, and definition.

#### **Teach *Metacognition***

- Explain different types of thinking strategies and when to use them.
- Encourage self-evaluation and reflection.
- Include questions that challenge students to wonder why they are doing what they are doing.
- Guide students in how to do systematic inquiry, detect flaws in thinking, and adjust patterns of thinking.

#### **Teach *Technology***

- Provide a mental and physical model of desired performance.
- Describe steps in the performance.
- Provide practice with kinesthetic and corrective feedback (coaching).

### **Teach *Multiple Intelligences/Learning Modalities***

- Visual learning modality focuses on seeing, watching and looking.
- Auditory learning modality focuses on hearing and responding to verbal information and instructions.
- Motor/kinesthetic learning modality focuses on active involvement and hands-on activities.
- Verbal-linguistic dimension focuses on reasoning with language, rhythms, and inflections, such as determining meaning and order of words (stories, readings, humor, rhyme, and song).
- Logical-mathematical dimension focuses on reasoning with patterns and strings of symbols (pattern blocks, activities to form numbers and letters).
- Musical dimension focuses on appreciation and production of musical pitch, melody, and tone.
- Spatial dimension focuses on activities of perceiving and transforming perceptions.
- Bodily kinesthetic dimension focuses on use and control of body and objects.
- Interpersonal dimension focuses on sensing needs, thoughts, and feelings of others.
- Intrapersonal dimension focuses on recognizing and responding to one's own needs, thoughts, and feelings.
- Naturalist dimension focuses on appreciation of nature and the environment and on comparing, contrasting, and classifying attributes.

### **Teach *Problem Solving***

- Assure student readiness by diagnosing and strengthening related concept, rule, and decision-making skills.
- Provide broad problem-solving methods and models.
- Include practice in solving different types of problems.
- Begin with highly structured problems and then gradually move to less structured ones.
- Use questions to guide thinking about problem components, goals, and issues.
- Provide guidance in observing and gathering information, asking appropriate questions, and generating solutions.
- Include practice in finding trouble, inequities, contradictions, or difficulties and in reframing problems.

### **Teach *Procedural Knowledge, Principles, and Rules***

- Define context, problems, situations, or goals and appropriate procedures.
- Explain reasons that procedures work for different types of situations.
- Define procedures—procedures include rules, principles, and/or steps.
- Provide vocabulary and concepts related to procedures.
- Demonstrate step-by-step application of procedures.
- Explain steps as they are applied.
- Include practice in applying procedures.

### **Teach *Scientific Inquiry***

- Explain process and methods of scientific inquiry.
- Explain and provide examples of (a) hypotheses formation, (b) valid procedures, (c) isolating variables, (d) interpretation of data, and (e) reporting findings.

- Encourage independent thinking and avoidance of dead ends or simplistic answers.
- Require students to explain, verify, challenge, and critique the results of their inquiry.

#### **Teach *Thinking Skills***

- Introduce different types of thinking strategies.
- Explain context or conditions of applying different strategies.
- Provide definitions, steps, and lists to use in strategies.
- Include examples of different types of thinking strategies, including how to think with open-mindedness, responsibility, and accuracy.
- Emphasize persisting when answers are not apparent.
- Provide practice in applying, transferring, and elaborating on thinking strategies.
- Integrate metacognitive, critical, and creative-thinking skills.

#### **Teach *Verbal Information, Knowledge, or Facts***

- Provide a meaningful context to link new information and past knowledge.
- Organize information into coherent groups or themes.
- Use devices to improve memory such as mnemonic patterns, maps, charts, comparisons, groupings, highlighting of key words or first letters, visual images, and rhymes.
- Identify main ideas, patterns, or relationships within information or sets of facts.

## **G. TARGETED ASSESSMENT STRATEGIES**

**Instructional materials should include assessment strategies that are known to be successful in determining how well students have achieved the targeted learning outcomes. See Sections 1006.31(2)(e); 1006.34(2)(b); 1006.38(4), Florida Statutes.**

**Alignment:** The assessment strategies should match the learner performance requirements for the types of learning outcomes that have been targeted for the subject matter, course, or course category. Different strategies are appropriate for assessing different types of learning outcomes. For example, a strategy for testing the acquisition of verbal information would not match the requirements for testing whether or not a student has learned a concept or learned how to solve a problem.

The term “assessment,” as used in this section, refers to testing or other strategies that assess student progress as a result of learning activities. The results of such assessment provide information about where to strengthen instruction. But it is very important to ask the right questions. If the type of question matches the type of learning outcome, then students and teachers have relevant information about learning progress.

**Completeness:** In addition to including assessment strategies that align with the performance requirements of the targeted learning outcomes, the strategies should be complete enough to effectively assess the learner’s performance with regard to the targeted outcome. For example, a test item that requires the student to state a rule does not assess whether or not the student knows how to *use* the rule.

**Research summary:** The research summary for effective assessment strategies for different types of learning outcomes follows the same alphabetical sequence as the previous section.

### ***Effective Assessment Strategies***

#### ***Assess Attitudes:***

- Provide various situations.
- Require choices about behaviors.

#### ***Assess Cognitive Strategies:***

- Provide learning tasks.
- Require students to choose good strategies for learning and/or to learn new materials without teacher guidance.
- Require students to discuss and explain methods used for various learning tasks.

#### ***Assess Comprehension/Understanding:***

- Provide topic.
- Require summary or restatement of information.
- Provide new context.
- Require application of information.
- Provide several statements using words different from the initial teaching.
- Require identification of the correct meaning.

#### ***Assess Concepts:***

- Provide new examples and non-examples.
- Require identification or classification into the correct categories.

#### ***Assess Creativity:***

- Provide new problems to “turn upside down,” study, or resolve—these could be performances, presentations, or products.
- Require products or solutions to fit within the particular functions and resources.
- Provide situations requiring novel approaches.

#### ***Assess Critical Thinking:***

- Require students to evaluate information or results.
- Require the use of analysis and research.

#### ***Assess Insight:***

- Provide situations for inquiry and discovery.
- Provide situations for manipulation.

#### ***Assess Metacognition:***

- Provide different situations or problems.
- Require students to identify types of thinking strategies to analyze and evaluate their own thinking.

#### ***Assess Multiple Intelligences/Learning Modalities:***

- Provide situations in the multiple intelligence/learning modalities that are targeted, e.g., verbal-linguistic, musical, or other learning modalities.
- Provide situations in several multiple intelligence/learning modalities, to allow choice.

- Require performance in the targeted or chosen multiple intelligence/learning modality.

**Assess *Motor Skills*:**

- Provide situations and resources for performance of the skill.
- Include checklist for evaluation.

**Assess *Problem Solving*:**

- Require students to choose types of problem-solving strategies for different situations.
- Require solutions to structured and unstructured, simple and complex problems.

**Assess *Procedural Knowledge, Principles, and Rules*:**

- Provide situations that require students to recognize the correct use of procedures, principles, or rules with routine problems.
- Require students to state procedures, principles, or rules.
- Require students to choose which procedures, principles, or rules to apply in different situations.
- Provide situations that require students to demonstrate the correct use of procedures, principles, or rules with routine problems.

**Assess *Scientific Inquiry*:**

- Provide situations or problems that require speculation, inquiry, and hypothesis formation.
- Provide research, hands-on activities, and conclusions.

**Assess *Thinking Skills*:**

- Require students to summarize different types of thinking strategies.
- Provide situations that require students to choose the best type of thinking strategy to use.
- Require students to detect instances of open vs. closed-mindedness.
- Require students to detect instances of responsible vs. irresponsible and accurate vs. inaccurate applications of thinking strategies.
- Provide situations that require the student's persistence in order to discover or analyze information to obtain answers to specific questions.
- Require students to apply specific thinking strategies to different real-world situations.

**Assess *Verbal Information, Knowledge, or Facts*:**

- Require students to recall information.
- Require students to restate information.
- Require students to understand information.



## **Requirements for Production of Accessible Instructional Materials**

### **Instructions for Preparing Electronic Files Required for Production of Instructional Materials in Braille and Other Accessible Formats in a Timely Fashion**

#### **Statutory Authorization**

Section 1003.55(5), Florida Statutes states that, “...any publisher of a textbook adopted pursuant to the state instructional materials adoption process shall furnish the Department of Education with a computer file in an electronic format specified by the Department at least 2 years in advance that is readily translatable to Braille and can be used for large print or speech access. Any textbook reproduced pursuant to the provisions of this subsection shall be purchased at a price equal to the price paid for the textbook as adopted. The Department of Education shall not reproduce textbooks obtained pursuant to this subsection in any manner that would generate revenues for the department from the use of such computer files or that would preclude the rightful payment of fees to the publisher for use of all or some portion of the textbook.”

Section 1006.29(3), Florida Statutes states that, “Beginning in the 2015-2016 academic year, all adopted instructional materials for students in kindergarten through grade 12 must be provided in an electronic or digital format. For purposes of this section, the term: (a) ‘Electronic format’ means text-based or image-based content in a form that is produced on, published by, and readable on computers or other digital devices and is an electronic version of a printed book, whether or not any printed equivalent exists. (b) ‘Digital format’ means text-based or image-based content in a form that provides the student with various interactive functions; that can be searched, tagged, distributed, and used for individualized and group learning; that includes multimedia content such as video clips, animations, and virtual reality; and that has the ability to be accessed at any time and anywhere. The terms do not include electronic or computer hardware even if such hardware is bundled with software or other electronic media, nor does it include equipment or supplies.”

Section 1006.38(15), Florida Statutes states that, “Grant, without prior written request, for any copyright held by the publisher or its agencies automatic permission to the department or its agencies for the reproduction of instructional materials and supplementary materials in braille, large print, or other appropriate format for use by visually impaired students or other students with disabilities that would benefit from use of the materials.”

#### **Objective**

Electronic formats are needed to accelerate the production of instructional materials in Braille, large print and other appropriate accessible formats. These accessible formats are used by visually impaired students or other students with disabilities utilizing specialized translation software and peripheral devices. Access to Braille, enlarged print, audio, and digital materials including web-based online applications is crucial to the successful inclusion of students with

disabilities in the classroom. The objective of these statutes is to prompt publishers to provide instructional materials data in an electronic format that will be useful to Braille and other accessible format producers while at the same time allowing each publisher the flexibility of providing files in the current version of: EPub3, HTML5, or MathML3 (as appropriate). Instructional materials that contain mathematical and scientific instructional content are to be marked up by using the MathML3 module of the DAISY/NIMAS Structure Guidelines as posted and maintained at the DAISY Consortium web site: <http://www.daisy.org/z3986/structure/SG-DAISY3/index.html>.

By April 1, of each year, publishers of adopted student textbooks for instructional materials must be able to provide the approved electronic formats UPON REQUEST. The requested electronic files shall be provided to the Florida Instructional Materials Center for the Visually Impaired (FIMC-VI), 4210 West Bay Villa Avenue, Tampa, Florida 33611; (813) 837-7826; in Florida WATS (800) 282-9193 or (813) 837-7979 (FAX). The center will contact each publisher of an adopted textbook and provide delivery instructions.

## **Federal Requirements for the National Instructional Materials Accessibility Standard (NIMAS)**

**National Instructional Materials Accessibility Standard (NIMAS)** guides the production and electronic distribution of digital versions of textbooks and other instructional materials so they can be more easily converted to accessible formats, including Braille and text-to-speech. A National Instructional Materials Access Center (NIMAC) has been established to receive and catalog publishers' electronic files of print instructional materials in the NIMAS format.

These files will be used for the production of alternate formats as permitted under the law for students with print disabilities. Under these guidelines, “textbook” means the principal tool of instruction such as state-adopted instructional materials used in the classroom. It is a printed book or books that contain most, if not all, of the academic content a student needs to learn to meet the State or Local Education Agency’s curriculum requirements for that subject area. “Related core materials” are printed materials, other than textbooks, designed for use by students in the classroom in conjunction with a textbook and which, together with the state adopted textbook, are necessary to meet the curriculum requirements for the intended course. The materials should be directly related to the textbook and wherever possible they should be published by the publisher of the textbook. Related core materials do not include materials that are not written and published primarily for use by students in the classroom (e.g., trade books not bundled with the textbook, newspapers, and reference works) or ancillary or supplemental materials that are not necessary to meet the curriculum requirements for the intended course. For purposes of these definitions, the term “curriculum requirements for the intended course” refers to relevant curriculum standards and requirements as established by a state educational agency or local educational agency.

The details of the metadata elements required as part of the NIMAS File set will be found at [http://www.nimac.us/pdf/NIMAC\\_Metadata1.pdf](http://www.nimac.us/pdf/NIMAC_Metadata1.pdf). Please note that some elements are required, while others are optional. Some fields also allow for multiple entries (e.g., subject terms).

Complete information concerning NIMAS and NIMAC can be found at <http://aim.cast.org> and <http://www.nimac.us>. (IDEA-2004).

Questions from publishers concerning electronic files in Florida can be directed to Leanne Grillot at [Leanne.Grillot@fldoe.org](mailto:Leanne.Grillot@fldoe.org)