**EAYA Career and Technical Education**

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| [**Standards Content**](https://drive.google.com/drive/folders/1K1Vy8q5z0RgxkQoZL1LAoBWU2wsjWqFG?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Students and****Program Design and****Management (Standards** [**I,**](https://drive.google.com/file/d/1t9b4CVZLrAxLsIGciD_q26O2WetPB8eV/view?usp=sharing)[**VII)**](https://drive.google.com/file/d/1BFeH1NV42arnT6v6q2kPJoJm4FQO9-GH/view?usp=sharing)* Obtaining a Holistic View of Students
* Program Design
	1. Assessing

stakeholder needsto validate programs ○ Respond tostakeholder finding ○ Program* Program Management
	1. Monitor and

maintain student data○ Inventory and maintain resources | 28%Approx 11 questions |  |  |  |
| **Learning Environment and****Instructional Practices** [**(Standard IV)**](https://drive.google.com/file/d/12hVtgJfmkzbcSi4MHJ60styQ615kHahP/view?usp=sharing)● Contextualizing Education within the LearningEnvironment Maintaining aSafe Learning Environment ● Utilizing Technology | 42%Approx 17 questions |  |  |  |
| **Postsecondary Readiness**[**(Standard VI)**](https://drive.google.com/file/d/1OopSoIBh56ZvEyOat5pnMhHdQQ2UJmz0/view?usp=sharing)● Defining Postsecondary Opportunities | 30%Approx 12 |  |  |  |

**EAYA Career and Technical Education (cont.)**

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| ● Pursuing Postsecondary Opportunities | questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * **National Educational Technology Standards**: [http://cnets.iste.org](http://cnets.iste.org/)
* **Computer educators:** [http://www.iste.org/standards/standards/standards-for-computer-science-educators](https://www.iste.org/standards/for-educators)
* **CSET Ed Technology practice tes**t (You must decide if these questions assess what your standards are assessing):
* [http://www.ctcexams.nesinc.com/TestView.aspx?f=HTML\_FRAG/CA\_CSET133\_TestPage.html: (Links to an external site.)](http://www.ctcexams.nesinc.com/TestView.aspx?f=HTML_FRAG/CA_CSET133_TestPage.html)
* **Industrial and Tech Ed:** <http://www.ctcexams.nesinc.com/TestView.aspx?f=HTML_FRAG/CA_CSET184_TestPage.html>

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EA English Language Arts**

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| [**Standards Content**](https://drive.google.com/drive/folders/1K6_Jb7Aa8LNrypFWkoMcSrw4OOoepQio?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Reading and Viewing (**[**Standard**](https://drive.google.com/file/d/1waye8fKF2IOeQGQNZQ_2kIJs-BYEanoT/view?usp=sharing)[**V)**](https://drive.google.com/file/d/1waye8fKF2IOeQGQNZQ_2kIJs-BYEanoT/view?usp=sharing)* The purposes of reading Genres
* Instructional strategies for reading and viewing maintain resources
 | 40%Approx 16 questions |  |  |  |
| **Writing and Producing** [**(Standard VI)**](https://drive.google.com/file/d/15iVzN6i8OT2RCEKZ4G0sQ7BoCsDSRxX0/view?usp=sharing)* Knowledge about writing and producing
* Instructing students in writing and producing
* Resources for writing and producing
* Assessment of writing and producing
 | 40%Approx 16 questions |  |  |  |
| **Speaking and Listening; Language Study (Standards** [**VII**](https://drive.google.com/file/d/1KUpWeQNVZyzu_DLGCSpk5M8q07fPtqPd/view?usp=sharing)**and** [**VIII)**](https://drive.google.com/file/d/1tT_6YdM_zRhqoFhroXp9Fl7jFbm5MivP/view?usp=sharing)* Pedagogy and strategies for teaching speaking and

listening* Integration of speaking and listening with other strands of English language arts
* The evolving nature of the English language
* Language in context
* Instructional approaches in
 | 20%Approx 8 questions |  |  |  |

**EA English Language Arts (cont.)**

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| the study of the English language |  |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA ELA/ELD Framework](http://www.cde.ca.gov/ci/rl/cf/elaeldfrmwrksbeadopted.asp)
* [Lit-Centric Resource Page](http://litcentric.com/blog/?page_id=380)
* [Literacy Resources](https://docs.google.com/document/d/1vMuu2TI0pvBgKWEYfDVWWo5URVfrvMEnfyQcXfB_KMQ/edit)
* [TEDD – English Language Arts](http://tedd.org/?tedd_subject=literacy)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EMC Physical Education**

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| [**Standards Content**](https://drive.google.com/drive/folders/1E-VSl_Wv0xjld24pI0ELzMyRAYySXY9o?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Exercise Science (**[**Standard II)**](https://drive.google.com/file/d/1QJI96h4r6RSf6IDdbnaFc47Rj8MvLJ9b/view?usp=sharing)* Major muscle groups and functions
* Biomechanical principles
* Effects of physical activity on the human body, and exercise heart rate and recovery heart rate
 | 35%Approx 14 questions |  |  |  |
| **Motor Development, Motor Learning, and Movement Forms****in Context (**[**Standard II)**](https://drive.google.com/file/d/1QJI96h4r6RSf6IDdbnaFc47Rj8MvLJ9b/view?usp=sharing)* Progression from beginning to mature motor patterns, including fine and gross motor skills
* Developmentally appropriate movements and progressions
* Critical elements that promote skill acquisition
* Developmentally appropriate scope and sequence of movement forms
 | 35%Approx14questions |  |  |  |
| **Physical Activity and Wellness;****Legal and Safety Issues (Standards** [**II,**](https://drive.google.com/file/d/1QJI96h4r6RSf6IDdbnaFc47Rj8MvLJ9b/view?usp=sharing) **IV)*** Health- and skill-related components of physical activity
* FITT Principle guidelines
 | 30%Approx 12 questions |  |  |  |

**EMC Physical Education (cont.)**

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| and principles of exercise* Basic nutrition principles and guidelines
* Comprehensive fitness, including hypokinetic conditions and the effect of behavioral choices on personal well- being
* Legal and safety issues, including applicable laws and initiatives related to the successful participation of all students, including

students with exceptionalities |  |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA Physical Education Framework](http://www.cde.ca.gov/ci/pe/cf/documents/peframework2009.pdf)
* [Concepts and Principles of Physical Education, What Every Student Needs to Know by Bonnie Mohnsan.](http://www.amazon.com/Concepts-Principles-Physical-Education-Student/dp/0883147440)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EA Social Studies-History**

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| [**Standards Content**](https://drive.google.com/drive/folders/1M15P9EcL728_FXxFEQsJIAXIE4aulkY0?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Integrating Content (**[**Standard**](https://drive.google.com/file/d/1Ly2cvJSb2OTbK-kmh7MMUOB9fqk02yk_/view?usp=sharing)[**IV)**](https://drive.google.com/file/d/1Ly2cvJSb2OTbK-kmh7MMUOB9fqk02yk_/view?usp=sharing)* Instructional Strategies
* Resources
 | 25%Approx 10 questions |  |  |  |
| **Knowing Content—History**[**(Standard III)**](https://drive.google.com/file/d/1QLTb3uyODA9YqRTMwIRpPEKF5Tgrbk3d/view?usp=sharing)* History
* World History
* United States History
 | 42%Approx 17 questions |  |  |  |
| **Knowing Content—Social Studies (**[**Standard III)**](https://drive.google.com/file/d/1QLTb3uyODA9YqRTMwIRpPEKF5Tgrbk3d/view?usp=sharing)* Economics
* Geography
* Civics and Government
 | 33%Approx 13 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [History - Social Science Framework](http://www.cde.ca.gov/ci/hs/cf/hssfw2ndreview.asp)
* [Khan Academy](https://www.khanacademy.org/)
* [Suggestions from SFUSD Candidates](https://docs.google.com/document/d/1wm_1PdnYFuPOofOucrLUZAIvkkdY7bRVylAkS9KkS0Y/edit)
* [Best of History Websites](http://www.besthistorysites.net/index.php)
* [Crash Course World history on Youtube](https://www.youtube.com/watch?v=Yocja_N5s1I&list=PLBDA2E52FB1EF80C9)
* [Crash Course Economics](https://www.youtube.com/watch?v=3ez10ADR_gM&list=PL8dPuuaLjXtPNZwz5_o_5uirJ8gQXnhEO)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**ECYA Library Media**

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| [**Standards Content**](https://drive.google.com/drive/folders/18_Kdf1DBmVGogsMRjHzxcFRwl4fronrh?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Library and****Information Studies (**[**Standard**](https://drive.google.com/file/d/1LsWadqovY6Hm9_A_LFftGxYj6oCLfUo0/view?usp=sharing)[**III**](https://drive.google.com/file/d/1LsWadqovY6Hm9_A_LFftGxYj6oCLfUo0/view?usp=sharing)**)*** Principles of the Profession

Effective Organization andPractice Collections* Information Seeking ● Information and Communication

Technologies | 40%Approx16questions |  |  |  |
| **Administration (Standards** [**V,**](https://drive.google.com/file/d/1Q9CNz9-G9bRLnqhp9Ir3KGr3xfE470xZ/view?usp=sharing)[**VI,**](https://drive.google.com/file/d/1vDHUtGk_RubF_0ehThoG4q7pGWtBpf8f/view?usp=sharing) [**IX)**](https://drive.google.com/file/d/1UPfTW1ilOPWVPRkOpTxAUz0zF8eRr8hD/view?usp=sharing)* Evaluating the Library Media Program
* Technologies for Program Administration
* Outreach and Advocacy
 | 25%Approx 10 questions |  |  |  |
| **Access, Equity, Diversity, and Ethics (Standards** [**III,**](https://drive.google.com/file/d/1LsWadqovY6Hm9_A_LFftGxYj6oCLfUo0/view?usp=sharing)[**VII,**](https://drive.google.com/file/d/1xI4ddywjN_tAhzFzU4cOkBOrZ_Lu9qcT/view?usp=sharing)[**VIII)**](https://drive.google.com/file/d/1GaOZJHyElglkZuGziBmDqVn8I4XTQ4dX/view?usp=sharing)* Access
* Practicing Professional Ethics
* Knowledge of Ethical and Legal Tenets
* Teaching Ethical

Information Behavior andDigital Citizenship | 35%Approx 14 questions |  |  |  |

**ECYA Library Media (cont.)**

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| **Resources recommended by NBCTs who have taken this assessment** |  ● [Implementing the Common Core State Standards: The Role of the School Librarian](http://www.achieve.org/files/CCSSLibrariansBrief-FINAL.pdf)[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA World Languages (French)**

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| [**Standards Content**](https://drive.google.com/file/d/1c_gCnfPv89AdNn2ECwtXth1joT7D2y1_/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Language** [**(Standard II**](https://drive.google.com/file/d/1wGkLzzapmrzAVSQsq5qlMaf9cJJmhrAA/view?usp=sharing)**)*** Phonological Systems
* Knowledge of How Language Works
* Cultural Values
* Rhetorical and Stylistic Devices Geographical

Variations* Current Trends in Development of Target

Language/Comparison ofEnglish and TargetLanguage | 50%Approx 22 or23 questions |  |  |  |
| **Knowledge of Language****Acquisition (**[**Standard IV)**](https://drive.google.com/file/d/1A_picU_Hx8TFq4XlE806EL9NCuqPuBVg/view?usp=sharing)* Current Theories and Research
* Learner Characteristics
* Learning Styles
* Instructional Strategies Competencies and

Discourse Features ● Cultural Knowledge | 50%Approx 22 or23 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA World Language Framework](http://www.cde.ca.gov/ci/cr/cf/documents/foreignlangfrmwrk.pdf)
* [ACTFL French](https://www.actfl.org/resources/actfl-proficiency-guidelines-2012/french)
* [CSET exam preparation site](https://www.teacherstestprep.com/top-books/CSET-Exams)
* [Free Online Professional Development resources](https://blog.coerll.utexas.edu/?s=free+online+professional+development)
* [AP workshop information for AP](http://apcentral.collegeboard.com/apc/public/professional_development/workshops/world_languages_culture/232517.html)
 |  |  |

**EAYA World Languages (French) (cont.)**

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|  | [Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA World Languages (Spanish)**

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| [**Standards Content**](https://drive.google.com/file/d/1c_gCnfPv89AdNn2ECwtXth1joT7D2y1_/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Language** [**(Standard II**](https://drive.google.com/file/d/1wGkLzzapmrzAVSQsq5qlMaf9cJJmhrAA/view?usp=sharing)**)*** Phonological Systems
* Knowledge of How Language Works
* Cultural Values
* Rhetorical and Stylistic Devices Geographical

Variations* Current Trends in Development of Target

Language/Comparison ofEnglish and TargetLanguage | 50%Approx 22 or23 questions |  |  |  |
| **Knowledge of Language****Acquisition (**[**Standard IV)**](https://drive.google.com/file/d/1A_picU_Hx8TFq4XlE806EL9NCuqPuBVg/view?usp=sharing)* Current Theories and Research
* Learner Characteristics
* Learning Styles
* Instructional Strategies Competencies and

Discourse Features ● Cultural Knowledge | 50%Approx 22 or23 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA World Language Framework](http://www.cde.ca.gov/ci/cr/cf/documents/foreignlangfrmwrk.pdf)
* [ACTFL Spanish](https://www.actfl.org/resources/actfl-proficiency-guidelines-2012/spanish)
* [CSET exam preparation site](https://www.teacherstestprep.com/top-books/CSET-Exams)
* [Free Online Professional Development resources](https://blog.coerll.utexas.edu/?s=free+online+professional+development)
* [AP workshop information for AP](http://apcentral.collegeboard.com/apc/public/professional_development/workshops/world_languages_culture/232517.html)
 |  |  |

**EAYA World Languages (Spanish) (cont.)**

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|  | [Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**ECYA School Counseling**

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| [**Standards Content**](https://drive.google.com/drive/folders/1kBvsIjBRTW_-Ph3ENohAVPtbtZCQAXXe?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **School Counseling Program,****Leadership, Advocacy, and****Professional Identity (Standards**[**I,**](https://drive.google.com/file/d/1SxW9daNt9pWLw6v_IaRT97VTOgmOOpc1/view?usp=sharing)[**X**](https://drive.google.com/file/d/1fj51e4kw4Lc901s_OEwI9nwVtG1a1acb/view?usp=sharing)**)*** Foundations of the program
* Accountability of the program
* Ethics
 | 40%Approx 16 questions |  |  |  |
| **Human Growth and****Development (**[**Standard III)**](https://drive.google.com/file/d/1nfiQuK1AZMlG9ktI9BoCqL_Sj8ErcyXw/view?usp=sharing)* Theories of human growth and development and their application in working with individual students
* Developmental stages
* Developmental assets and strategies for helping

students build* Developmental needs of students with

exceptionalities* Consulting with stakeholders regarding developmental

considerations in education for all students | 30%Approx 12 questions |  |  |  |

**ECYA School Counseling (cont.)**

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| **Counseling Theories, Equity, and Fairness (Standards** [**IV,**](https://drive.google.com/file/d/1XhK97NK3unrwODkALaY-PVj-mgd6Fc77/view?usp=sharing)[**V)**](https://drive.google.com/file/d/1f4xQMWdTI5FZZYh108rK36bH7Hi3LCp7/view?usp=sharing)* History and philosophy of major counseling theories and techniques
* Building and maintaining strong relationships with highly developed communication skills
* Theories and policies

related to multicultural counseling and differences among diverse populations* Relationship between motivation and behavior
* Promoting fairness and equity
 | 30%Approx12questio ns |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [MastersInCounseling.org](http://www.mastersincounseling.org/counseling-sites.html#school)
* [A Framework for School Counseling Programs](http://schoolcounselor.org/ascanationalmodel/media/anm-templates/anmexecsumm.pdf)
* [ASCA – Ethical Standards for School Counselors](https://www.schoolcounselor.org/asca/media/asca/Ethics/EthicalStandards2016Draft.pdf)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA Music**

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| [**Standards Content**](https://drive.google.com/file/d/1YD2tQnakj92RBqYKP_cnkVlgbz1pG7rq/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Theory and History (**[**Standard II)**](https://drive.google.com/file/d/1Mq7xOFMU2sYEe-uuDIJizyexKta81t8g/view?usp=sharing)● Theory ● History | 25%Approx 10 questions |  |  |  |
| **Facilitating Music Learning** [**(Standard IV)**](https://drive.google.com/file/d/14_Dn8vFepgOqVUDQBICM9-RpNYwORUGm/view?usp=sharing)* Curriculum
* Instructional Strategies
 | 17%Approx 7 questions |  |  |  |
| **Specialized Skills and****Knowledge (**[**Standard IV)**](https://drive.google.com/file/d/14_Dn8vFepgOqVUDQBICM9-RpNYwORUGm/view?usp=sharing)**Path-Specific*** Instrumental: Band or
* Instrumental: Orchestra or
* Vocal/General
 | 33%Approx 13 questions |  |  |  |
| **Performing and Repertoire****(Standards** [**II,**](https://drive.google.com/file/d/1Mq7xOFMU2sYEe-uuDIJizyexKta81t8g/view?usp=sharing)[**VI**](https://drive.google.com/file/d/1IJ47Jo5q7vp9hsN13ZqsoxVTQ06WRyRA/view?usp=sharing)**)*** Performing Techniques
* Repertoire
* Connections to Other Disciplines
* Building Repertoires and Teaching Strategies that Include Music Chosen from a World Sample
 | 25%Approx 10 questions |  |  |  |

**EAYA Music (cont.)**

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| **Resources recommended by NBCTs who have taken this assessment** | [Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EMC Music**

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| [**Standards Content**](https://drive.google.com/file/d/1YD2tQnakj92RBqYKP_cnkVlgbz1pG7rq/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Theory and History (**[**Standard II)**](https://drive.google.com/file/d/1Mq7xOFMU2sYEe-uuDIJizyexKta81t8g/view?usp=sharing)● Theory ● History | 25%Approx 1questions |  |  |  |
| **Facilitating Music Learning** [**(Standard IV)**](https://drive.google.com/file/d/14_Dn8vFepgOqVUDQBICM9-RpNYwORUGm/view?usp=sharing)* Curriculum
* Instructional Strategies
 | 17%Approx 7 questions |  |  |  |
| **Specialized Skills and****Knowledge (**[**Standard IV)**](https://drive.google.com/file/d/14_Dn8vFepgOqVUDQBICM9-RpNYwORUGm/view?usp=sharing)**Path-Specific*** Instrumental: Band or
* Instrumental: Orchestra or
* Vocal/General
 | 33%Approx 13 questions |  |  |  |
| **Performing and Repertoire****(Standards** [**II,**](https://drive.google.com/file/d/1Mq7xOFMU2sYEe-uuDIJizyexKta81t8g/view?usp=sharing)[**VI**](https://drive.google.com/file/d/1IJ47Jo5q7vp9hsN13ZqsoxVTQ06WRyRA/view?usp=sharing)**)*** Performing Techniques
* Repertoire
* Connections to Other Disciplines
* Building Repertoires and Teaching Strategies that Include Music Chosen from a World Sample
 | 25%Approx 10 questions |  |  |  |

**EMC Music (cont.)**

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| --- | --- |
| **Resources recommended by NBCTs who have taken this assessment** |  ● https://www.pinterest.com/pin/775533998325442972/[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EA Math**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1ocvNYQzcBrtUfCOiKniYWP_A2wHZA1GJ?usp=sharing)[**Standard II**](https://drive.google.com/file/d/1KiaP8lwxrahkWyv1Rj02NlHpjoJqxQqO/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Contexts for Mathematics*** Historical Development of Mathematical Ideas
* Mathematical Applications in Fields Related to

Mathematics* Precise Communication of Mathematical Ideas
 | 15%Approx 6 questions |  |  |  |
| **Problem Solving and Number****Sense*** Numbers and Operations
* Algebra and Functions
* Geometry
 | 45%Approx 18 questions |  |  |  |
| **Modeling and Analysis*** Trigonometry
* Discrete Mathematics
* Data Analysis and Statistics
* Calculus
 | 40%Approx 16 questions |  |  |  |

**EA Math (cont.)**

|  |  |
| --- | --- |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA Mathematics Framework](http://www.cde.ca.gov/ci/ma/cf/draft2mathfwchapters.asp)
* [PhET Interactive simulations](http://phet.colorado.edu/)
* [Mathematics Instructions for Students with Learning Disabilities or Difficulty Learning Mathematics](http://www.centeroninstruction.org/files/Mathematics%20Instruction%20LD%20Guide%20for%20Teachers.pdf) ● [TEDD – Mathematics](http://tedd.org/?tedd_subject=mathematics)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA Math**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1ocvNYQzcBrtUfCOiKniYWP_A2wHZA1GJ?usp=sharing)[**Standard II**](https://drive.google.com/file/d/1KiaP8lwxrahkWyv1Rj02NlHpjoJqxQqO/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Contexts for Mathematics*** Historical Development of Mathematical Ideas
* Mathematical Applications in Fields Related to

Mathematics* Precise Communication of Mathematical Ideas
 | 15%Approx 6 questions |  |  |  |
| **Problem Solving and Number****Sense*** Numbers and Operations
* Algebra and Functions
* Geometry
 | 450Approx 16 questions |  |  |  |
| **Modeling and Analysis*** Trigonometry
* Discrete Mathematics
* Data Analysis and Statistics
* Calculus
 | 45%Approx 18 questions |  |  |  |

**AYA Math (cont.)**

|  |  |
| --- | --- |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA Mathematics Framework](http://www.cde.ca.gov/ci/ma/cf/draft2mathfwchapters.asp)
* [PhET Interactive simulations](http://phet.colorado.edu/)
* [Mathematics Instructions for Students with Learning Disabilities or Difficulty Learning Mathematics](http://www.centeroninstruction.org/files/Mathematics%20Instruction%20LD%20Guide%20for%20Teachers.pdf) ● [TEDD – Mathematics](http://tedd.org/?tedd_subject=mathematics)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA Social Studies-History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/file/d/1R-f_PzkTNWXoZ5mTXKdpwPkid_1723c9/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Integrating Content (**[**Standard**](https://drive.google.com/file/d/1Ly2cvJSb2OTbK-kmh7MMUOB9fqk02yk_/view?usp=sharing)[**IV)**](https://drive.google.com/file/d/1Ly2cvJSb2OTbK-kmh7MMUOB9fqk02yk_/view?usp=sharing)* Instructional Strategies
* Resources
 | 25%Approx 10 questions |  |  |  |
| **Knowing Content—History**[**(Standard III)**](https://drive.google.com/file/d/1QLTb3uyODA9YqRTMwIRpPEKF5Tgrbk3d/view?usp=sharing)* History
* World History
* United States History
 | 42%Approx 17 questions |  |  |  |
| **Knowing Content—Social Studies (**[**Standard III)**](https://drive.google.com/file/d/1QLTb3uyODA9YqRTMwIRpPEKF5Tgrbk3d/view?usp=sharing)* Economics
* Geography
* Civics and Government
 | 33%Approx 13 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [History - Social Science Framework](http://www.cde.ca.gov/ci/hs/cf/hssfw2ndreview.asp)
* [Khan Academy](https://www.khanacademy.org/)
* [Suggestions from SFUSD Candidates](https://docs.google.com/document/d/1wm_1PdnYFuPOofOucrLUZAIvkkdY7bRVylAkS9KkS0Y/edit)
* [Best of History Websites](http://www.besthistorysites.net/index.php)
* [Crash Course World history on Youtube](https://www.youtube.com/watch?v=Yocja_N5s1I&list=PLBDA2E52FB1EF80C9)
* [Crash Course Economics](https://www.youtube.com/watch?v=3ez10ADR_gM&list=PL8dPuuaLjXtPNZwz5_o_5uirJ8gQXnhEO)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA Science-Physics**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1R4MGaxEOiNbkLnZ2uvxN0_KS-K7Tqwnv?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Science Practices and Context (**[**Standard II)**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)* Nature of Science
* Understanding of Inquiry
* Context of Science
 | 20%Approx 8 questions |  |  |  |
| **Knowledge of Science Content**[**(Standard II**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)**)*** Earth and Space Science
* Life Science
* Physical Science Chemistry
* Physical Science - Physics
 | 60%45% inspecialityApprox 18 questions15% from other disciplinesApprox 7 questions |  |  |  |
| **Curriculum, Instruction, and****Learning Environment (Standards** [**III,**](https://drive.google.com/file/d/13XIDnzmzrKQyMFxx-L2WkA2svkz925rd/view?usp=sharing)[**V**](https://drive.google.com/file/d/1E_RNW1Q8uz3DDXoEfOKWwNj2eRHizNTg/view?usp=sharing)**)*** Crosscutting Principles
* Assessing and addressing preconceptions
* Safety
 | 20%Approx 8 questions |  |  |  |

**AYA Science-Physics (cont.)**

|  |  |
| --- | --- |
| **Resources recommended by NBCTs who have taken this assessment** | * [A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas](http://www.nap.edu/read/13165/chapter/1) ● [TEDD – Science](http://tedd.org/?tedd_subject=science)
* [Next Generation Science Standards](http://www.nextgenscience.org/)
* [Understanding Science](http://undsci.berkeley.edu/)
* [Learning Science](http://www.learningscience.org/)
* [PhET Interactive simulations](http://phet.colorado.edu/)
* [FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education](http://www.nsf.gov/pubs/2000/nsf99148/start.htm) (EC/MC Gen

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA Science-Chemistry**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1R4MGaxEOiNbkLnZ2uvxN0_KS-K7Tqwnv?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Science Practices and Context (**[**Standard II)**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)* Nature of Science
* Understanding of Inquiry
* Context of Science
 | 20%Approx 8 questions |  |  |  |
| **Knowledge of Science Content**[**(Standard II**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)**)*** Earth and Space Science
* Life Science
* Physical Science Chemistry
* Physical Science - Physics
 | 60%45% inspecialityApprox 18 questions15% from other disciplinesApprox 6 questions |  |  |  |
| **Curriculum, Instruction, and****Learning Environment (Standards** [**III,**](https://drive.google.com/file/d/13XIDnzmzrKQyMFxx-L2WkA2svkz925rd/view?usp=sharing)[**V**](https://drive.google.com/file/d/1E_RNW1Q8uz3DDXoEfOKWwNj2eRHizNTg/view?usp=sharing)**)*** Crosscutting Principles
* Assessing and addressing preconceptions
* Safety
 | 20%Approx 8 questions |  |  |  |

**AYA Science-Chemistry (cont.)**

|  |  |
| --- | --- |
| **Resources recommended by NBCTs who have taken this assessment** | * [A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas](http://www.nap.edu/read/13165/chapter/1) ● [TEDD – Science](http://tedd.org/?tedd_subject=science)
* [Next Generation Science Standards](http://www.nextgenscience.org/)
* [Understanding Science](http://undsci.berkeley.edu/)
* [Learning Science](http://www.learningscience.org/)
* [PhET Interactive simulations](http://phet.colorado.edu/)
* [FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education](http://www.nsf.gov/pubs/2000/nsf99148/start.htm) (EC/MC Gen

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**ECYA Exceptional Needs Specialist**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1huuar1qYX6A7WTDQAXdr2MsdYzpZydfo?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Students and****Knowledge of Philosophy, History and Law (Standards** [**I**](https://drive.google.com/file/d/1SpznUEFI0M8vXwdaVUu0ZkSXq6QSmTqh/view?usp=sharingZmakkQLuddjyUw-7/view?usp=sharing) **and** [**II)**](https://drive.google.com/file/d/1Ysrft3p0GgQCGw-N6BPVKeiSl6iJ78tS/view?usp=sharing)* Child Growth and Development
* Effective Advocacy: Knowledge of Philosophy,

History, and Law* Exemplifying High Ethical Ideals
 | 20%Approx8 questions |  |  |  |
| **Diversity and Family****Partnerships (Standards** [**III**](https://drive.google.com/file/d/1JLbBiRxEmDK0jEK_AE07RnJ_gm6LgfXP/view?usp=sharing)[**a**](https://drive.google.com/file/d/1JLbBiRxEmDK0jEK_AE07RnJ_gm6LgfXP/view?usp=sharing)**nd**[**IV)**](https://drive.google.com/file/d/1hHgOlSOGc-F_7WtdJBHKkHk6Ykt1Ok-J/view?usp=sharing)* Creating Equitable, Fair, and Diverse Environments
* Ensuring Access to Quality Learning Experiences
* Collaborating with Parents to Support Students’

Education | 20%Approx 8 questions |  |  |  |
| **Communication and Social****Development and Behavior****(Standards** [**VI**](https://drive.google.com/file/d/1gShwSYeari1Y1ZNA1uyJ72bYeDlZlPvV/view?usp=sharing)[**a**](https://drive.google.com/file/d/1gShwSYeari1Y1ZNA1uyJ72bYeDlZlPvV/view?usp=sharing)**nd** [**VII)**](https://drive.google.com/file/d/1LaD70GgLfgVmQ1cywvAImFUMJ9evxLm7/view?usp=sharing)* Understanding Language

Acquisition andDevelopment* Using Unique Strategies to Develop Communication
 | 30%Approx 12 questions |  |  |  |

**ECYA Exceptional Needs Specialist (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Skills* Collaborating with Others to

Facilitate StudentLanguage Development* Teaching and Fostering

Social Skills* Developing Students’ Self-Confidence and

Self-Determination* Fostering and Supporting Positive Behavior
 |  |  |  |  |
| **Assessment and Curriculum and****Instruction (Standards** [**V**](https://drive.google.com/file/d/1gShwSYeari1Y1ZNA1uyJ72bYeDlZlPvV/view?usp=sharing)[**a**](https://drive.google.com/file/d/1gShwSYeari1Y1ZNA1uyJ72bYeDlZlPvV/view?usp=sharing)**nd** [**VIII**](https://drive.google.com/file/d/1pumEg3Z9tYKWvVGvSq4EngJGM7GtZ6cd/view?usp=sharing)**)*** Using Diverse Assessment

Methods for DifferentPurposes* Academic Core Curriculum

– Literacy* Individualizing Curriculum and Integrating Life Skills

Development AcrossDisciplines, Contexts, and Settings* Fostering Student Transitions and Career

Development | 30%Approx 12 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [Community Alliance for Special Education](http://www.caseadvocacy.org/)
* [The Individuals with Disabilities Education Act (IDEA)](http://idea.ed.gov/)
* [Additional resources from SFUSD Candidates](https://docs.google.com/a/t.sfusd.edu/document/d/1Okya8D-NSyNaT4pIzMZbzDri5YKXl1Ycufr4K8dpwhs/edit)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit) |

**ECYA Exceptional Needs Specialist (cont.)**

|  |  |
| --- | --- |
|  | These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA Art**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1Az6cJYNkwzaST4Ri9Jks1eWlT6fV_ZQA?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Art Education (Standards** [**I,**](https://drive.google.com/file/d/1Bd9KZu_hAj6dLmUL8NhTNd-PZNorXXkZ/view?usp=sharing)[**III,**](https://drive.google.com/file/d/1XSUKCgp_C1Y8eOBKy0vNqcvRiIetEa0y/view?usp=sharing)[**V,**](https://drive.google.com/file/d/1E7Nejw-5ivl-I3yudPZvxgHHoeRpxuWG/view?usp=sharing)[**VIII)**](https://drive.google.com/file/d/1a21kcV9V4G9hO4832UDo3vZ87imDi3TS/view?usp=sharing)* Goals of Art Education
* Reflecting on the Goals of Art Education in Order to Make

Principled Decisions about Practice* Art Education Goals in Relation to Other Disciplines in the

Curriculum* Goals of General Education and Lifelong Learning
* Making Connections to the Cultures of Communities
* Curriculum Design
* Building Curriculum on the Goals of Art Education
* The Complex Nature of Teaching Art
* Using a Range of Instructional Strategies
* Helping Students Make Art While Teaching How and Why

Works of Art Are Made* Helping Students Experience and Understand Art
* Creating and Maintaining Healthy and Safe Learning

Environments | 35%Approx14questions |  |  |  |
| **Content and Creation of Art**[**(Standard IV)**](https://drive.google.com/file/d/1qUmiqnE0UCaoTEqTKBTsnhJ7kSJVzANg/view?usp=sharing) ● Art Forms and Forming | 35%Approx |  |  |  |

**EAYA Art (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Processes* Influence of Technology on Art
* Form, Qualities, and Styles of Art
* Ideational Aspects of Art
 | 14questions |  |  |  |
| **Study of Art (**[**Standard IV)**](https://drive.google.com/file/d/1qUmiqnE0UCaoTEqTKBTsnhJ7kSJVzANg/view?usp=sharing)Complex* Attributes of Works of Art
* Contexts of Art
* Theories and Philosophies of Art
 | 30%Approx 12 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA Visual & Performing Arts Framework](http://www.cde.ca.gov/ci/cr/cf/documents/vpaframewrk.pdf)
* [Creativity at the Core](http://ccsesaarts.org/creativity-at-the-core/about-creativity-at-the-core/)
* [National Core Arts Standards](http://www.nationalartsstandards.org/)
* [The Arts and Common Core](https://nccas.wikispaces.com/file/view/Arts%2Band%2BCommon%2BCore%2B-%2Bfinal%2Breport.pdf)
* [The J. Paul Getty Museum-Resources](http://www.getty.edu/education/teachers/classroom_resources/index.html)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA English as a New Language**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/file/d/1GubXsp9awDX7WXFAKDDX1BLZ_bJ3Z9OV/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Culture and Diversity (**[**Standard II)**](https://drive.google.com/file/d/1s5Khoeyqv5pOOttA3fisLuSNWJttYxc6/view?usp=sharing)* Knowledge and

Understanding of Culture and Diversity CulturallyResponsive LearningEnvironments* Student Advocacy
 | 20%Approx8questions |  |  |  |
| **Knowledge of the English Language (**[**Standard IV)**](https://drive.google.com/file/d/1o2_mOkexuY6euYBA3g-327A4o3XyZu3S/view?usp=sharing)* Listening
* Speaking
* Reading
* Writing
* Phonology
* Vocabulary
* Grammar Discourse
* Social English Language
* Academic English Language
 | 25%Approx 10 questions |  |  |  |
| **Knowledge of English Language Acquisition (**[**Standard V)**](https://drive.google.com/file/d/1CB9RavCx7j5VSl8f2L_vU459BSKpGGEr/view?usp=sharing)* Language Exposure
* Language Awareness
* Interaction and Practice ● Interdependence of Language and Content
* Interdependence of

Reading, Writing,Speaking, Listening, and | 40%Approx 16 questions |  |  |  |

**EAYA English as a New Language (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Visual Literacy* Explicit Instruction
* Instructional Feedback Language
* Transfer Educational Background
* Culture and Socioeconomic Variables
* Age and Length of Time in the United States
* Other Factors Affecting Language Development
* Myths and Misconceptions about English Language

Acquisition |  |  |  |  |
| **Assessment (**[**Standard VII)**](https://drive.google.com/file/d/1jQuF-iU5h5BCFOtlWnKLiVXY735q2BvM/view?usp=sharing) **Variety in Assessment*** Techniques
* Initial Placement

Assessment | 15% |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA ELA/ELD Framework](http://www.cde.ca.gov/ci/rl/cf/elaeldfrmwrksbeadopted.asp)
* [Lit-Centric Resource Page](http://litcentric.com/blog/?page_id=380)
* [Literacy Resources](https://docs.google.com/document/d/1vMuu2TI0pvBgKWEYfDVWWo5URVfrvMEnfyQcXfB_KMQ/edit)
* [TEDD – English Language Arts](http://tedd.org/?tedd_subject=literacy)

[Full list for all certificate areas\](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA Science - Biology**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1R4MGaxEOiNbkLnZ2uvxN0_KS-K7Tqwnv?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Science Practices and Context (**[**Standard II)**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)* Nature of Science
* Understanding of Inquiry
* Context of Science
 | 20%Approx 8 questions |  |  |  |
| **Knowledge of Science Content**[**(Standard II**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)**)*** Earth and Space Science
* Life Science
* Physical Science Chemistry
* Physical Science - Physics
 | 60%45% in specialityApprox 18 questions15% from other disciplinesApprox 6 questions |  |  |  |
| **Curriculum, Instruction, and****Learning Environment (Standards** [**III,**](https://drive.google.com/file/d/13XIDnzmzrKQyMFxx-L2WkA2svkz925rd/view?usp=sharing)[**V**](https://drive.google.com/file/d/1E_RNW1Q8uz3DDXoEfOKWwNj2eRHizNTg/view?usp=sharing)**)*** Crosscutting Principles
* Assessing and addressing preconceptions
* Safety
 | 20%Approx 8 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas](http://www.nap.edu/read/13165/chapter/1) ● [TEDD – Science](http://tedd.org/?tedd_subject=science)
* [Next Generation Science Standards](http://www.nextgenscience.org/)
* [Understanding Science](http://undsci.berkeley.edu/)
* [Learning Science](http://www.learningscience.org/)
* [PhET Interactive simulations](http://phet.colorado.edu/)
 |  |

**AYA Science - Biology (cont.)**

|  |  |
| --- | --- |
|  |  ● [FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education](http://www.nsf.gov/pubs/2000/nsf99148/start.htm) (EC/MC Gen[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EMC Art**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/19XfiU38q8L0CpBGjRgbxZy7HtvgeHLwp?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Art Education (Standards** [**I,**](https://drive.google.com/file/d/11KiNCv94MTVZ9lkx4wb9Min0YHDAWHOn/view?usp=sharing)[**III,**](https://drive.google.com/file/d/1kCsg0hhNId8DzWSPemaPCCDC4OOVRDtV/view?usp=sharing)[**V,**](https://drive.google.com/file/d/15yDBJ1VyKz6DGmLJ1v7bMHs5lfCKrS3T/view?usp=sharing)[**VII**](https://drive.google.com/file/d/1rHK6UlBr4j8cu_kt7adMtzUWS2aZQLds/view?usp=sharing)**)*** Goals of Art Education
* Reflecting on the Goals of Art Education in Order to Make Principled Decisions about Practice
* Art Education Goals in

Relation to OtherDisciplines in theCurriculum* Goals of General Education and Lifelong Learning
* Making Connections to the Cultures of Communities
* Guarding Against Bias and Stereotype
* Building Curriculum on the Goals of Art Education
* Creating and Maintaining Healthy and Safe Learning

Environments | 35%Approx14 questions |  |  |  |
| **Content of Art and Art Making** [**(Standard IV)**](https://drive.google.com/file/d/1f1uU3UAd0pCtDt9-0bcWRDD43j3rooht/view?usp=sharing)* Art Making
* Technology
* Art Criticism
* Art History
* Aesthetics
 | 35%Approx14 questions |  |  |  |
| **Complex Attributes of Works of** | 30% |  |  |  |

**EMC Art (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Art (**[**Standard IV)**](https://drive.google.com/file/d/1f1uU3UAd0pCtDt9-0bcWRDD43j3rooht/view?usp=sharing)* Classification of Art Forms and Types
* Expressive Qualities of Art
* Universal Themes or Ideas
* Context of Art
 | Approx12 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA Visual & Performing Arts Framework](http://www.cde.ca.gov/ci/cr/cf/documents/vpaframewrk.pdf)
* [Creativity at the Core](http://ccsesaarts.org/creativity-at-the-core/about-creativity-at-the-core/)
* [National Core Arts Standards](http://www.nationalartsstandards.org/)
* [The Arts and Common Core](https://nccas.wikispaces.com/file/view/Arts%2Band%2BCommon%2BCore%2B-%2Bfinal%2Breport.pdf)
* [The J. Paul Getty Museum-Resources](http://www.getty.edu/education/teachers/classroom_resources/index.html)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA English Language Arts**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1K6_Jb7Aa8LNrypFWkoMcSrw4OOoepQio?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Reading and Viewing (**[**Standard**](https://drive.google.com/file/d/1waye8fKF2IOeQGQNZQ_2kIJs-BYEanoT/view?usp=sharing)[**V)**](https://drive.google.com/file/d/1waye8fKF2IOeQGQNZQ_2kIJs-BYEanoT/view?usp=sharing)* The purposes of reading
* Genres
* Instructional strategies for reading and viewing
 | 40%Approx 16 questions |  |  |  |
| **Writing and Producing** [**(Standard VI)**](https://drive.google.com/file/d/15iVzN6i8OT2RCEKZ4G0sQ7BoCsDSRxX0/view?usp=sharing)* Knowledge about writing and producing
* Instructing students in writing and producing
* Resources for writing and producing
* Assessment of writing and producing
 | 40%Approx 16 questions |  |  |  |
| **Speaking and Listening; Language Study (Standards** [**VII**](https://drive.google.com/file/d/1KUpWeQNVZyzu_DLGCSpk5M8q07fPtqPd/view?usp=sharing)**and** [**VIII)**](https://drive.google.com/file/d/1tT_6YdM_zRhqoFhroXp9Fl7jFbm5MivP/view?usp=sharing)* Pedagogy and strategies for teaching speaking and

listening* Integration of speaking and listening with other strands of English language arts
* The evolving nature of the English language
* Language in context
* Instructional approaches in the study of the English
 | 20%Approx 8 questions |  |  |  |

**AYA English Language Arts (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| language |  |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA ELA/ELD Framework](http://www.cde.ca.gov/ci/rl/cf/elaeldfrmwrksbeadopted.asp)
* [Lit-Centric Resource Page](http://litcentric.com/blog/?page_id=380)
* [Literacy Resources](https://docs.google.com/document/d/1vMuu2TI0pvBgKWEYfDVWWo5URVfrvMEnfyQcXfB_KMQ/edit)
* [TEDD – English Language Arts](http://tedd.org/?tedd_subject=literacy)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA Health**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/16g4lZQaQcVjUSsPW0Yc_Yuox8z2augjq?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Subject****Matter/Personal Health**[**(Standard II**](https://drive.google.com/file/d/1wtG0cG6L9pVvMu96dQ_qPsqq5zeQ_RhP/view?usp=sharing)**)*** Personal Health
* Nutrition
* Prevention and Control of Disease
* Mental and Emotional Health Substance Use and

Abuse | 25%Approx 10 questions |  |  |  |
| **Knowledge of Subject****Matter/Environmental and****Consumer Health (**[**Standard II)**](https://drive.google.com/file/d/1wtG0cG6L9pVvMu96dQ_qPsqq5zeQ_RhP/view?usp=sharing)* Injury Prevention and Safety
* Consumer Health Environmental Health
* Dynamic, Relevant, and Practical Knowledge for

Teaching Health Education | 20%Approx 8 questions |  |  |  |

**EAYA Health (cont.)**

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| --- | --- | --- | --- | --- |
| **Skills-based Learning/The Individual (**[**Standard III)**](https://drive.google.com/file/d/11rV5ysSRbByC4w5bxC47BLCmiaxviXBI/view?usp=sharing)* Goal-setting
* Decision-making

Problem-solving skills* Stress management

Identification and evaluation of and access to health information and health-promoting products and services | 25%Approx 10 questions |  |  |  |
| **Skills-based****Learning/Interacting with Others** [**(Standard III)**](https://drive.google.com/file/d/11rV5ysSRbByC4w5bxC47BLCmiaxviXBI/view?usp=sharing)* Interpersonal communication
* Strategies to resolve

conflicts* Effective ways to influence and support others in making positive health

choices* Refusal skills
* Assertiveness
* Negotiation and collaboration techniques
* Influence of various factors such as peers, cultural beliefs, the media, and technology on health
 | 30%Approx 12 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** |  ● [CA Health Framework](http://www.cde.ca.gov/ci/cr/cf/documents/healthfw.pdf)[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit) |

**EAYA Health (cont.)**

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|  | These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EMC Literacy/Reading-Language Arts**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1lRVmdVZeUl0VNy5IdcsZMwxM1tbslbuv?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Learners and****Collaborating with Families (Standards** [**I,**](https://drive.google.com/file/d/1ajGLGcQ4j4WTlB-Hy3eh0SHKQP7IjmcO/view?usp=sharing)[**XII**](https://drive.google.com/file/d/1RiW2xFkQvCBsAWogi3axa6bMcFnR5Rwz/view?usp=sharing)**)*** Knowing Each Student as

an Intellectual, Social, Emotional, Cultural, and Language Learner* Understanding Learning and Child Development

Theories* Assisting Families in Supporting Their Children's

Learning Development | 20%Approx 8 questions |  |  |  |
| **Equity, Fairness, and Diversity; the Learning Environment; and Literacy Assessment (Standards**[**II,**](https://drive.google.com/file/d/1ajGLGcQ4j4WTlB-Hy3eh0SHKQP7IjmcO/view?usp=sharing)[**III,**](https://drive.google.com/file/d/1FT6hDsScK-iX7cYgkMIscHvPvzOlO_ZB/view?usp=sharing)[**IV,**](https://drive.google.com/file/d/1SUzYELZFwAEvnpSwZmakkQLuddjyUw-7/view?usp=sharing)[**V**](https://drive.google.com/file/d/1vwIEVF86BWaaZ5yU7cNb4Q8i5rYqtDg8/view?usp=sharing)**)*** Promoting Fairness and Equity Establishing the

Intellectual Environment* Selecting Resources
* Knowledge of Assessment and Selecting and

Administering Assessments | 25%Approx 10 questions |  |  |  |

**EMC Literacy/Reading-Language Arts (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Reading and Writing (Standards**[**VI**](https://drive.google.com/file/d/1cLH9PlH2U520fDS9qAUcJVasJ283ZItW/view?usp=sharing) **and** [**VII)**](https://drive.google.com/file/d/1rj_gl9-qv1NeO6Ei57QNevJK-rPWJ_Qy/view?usp=sharing)* Knowledge and Instruction of Reading
* Knowledge and Instruction of Writing
* Connections of Reading and Writing to the Other Language Arts and to Other

Discipline | 20%Approx 8 questions |  |  |  |
| **Listening and Speaking; Viewing and Visual Literacy (Standards**[**VIII**](https://drive.google.com/file/d/1p6vmS_9lz0E7fevZmSv4KR1xT-3lIaOL/view?usp=sharing) **and** [**IX)**](https://drive.google.com/file/d/1r0NQRgC2M5onYOkoSNYROaUEJCLJeNvq/view?usp=sharing)* Knowledge and Instruction of Listening and Speaking
* Knowledge and Instruction of Viewing and Visual

Literacy | 35%Approx 14 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** |  ● [Suggestions from SFUSD Candidate](https://docs.google.com/document/d/1Hy0JQN2YjcQ_4d9Uobnwut0ksQsyDQLo_Vby-bKJihM/edit?usp=sharing)[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EA Science**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1R4MGaxEOiNbkLnZ2uvxN0_KS-K7Tqwnv?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Science Practices and Context (**[**Standard II)**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)* Nature of Science
* Understanding of Inquiry
* Context of Science
 | 30%Approx 12 questions |  |  |  |
| **Knowledge of Science Content**[**(Standard II**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)**)*** Earth and Space Science
* Life Science
* Physical Science
 | 50%Approx 20 questions |  |  |  |
| **Curriculum, Instruction, and****Learning Environment (Standards** [**III,**](https://drive.google.com/file/d/13XIDnzmzrKQyMFxx-L2WkA2svkz925rd/view?usp=sharing)[**V**](https://drive.google.com/file/d/1E_RNW1Q8uz3DDXoEfOKWwNj2eRHizNTg/view?usp=sharing)**)*** Crosscutting Principles
* Assessing and addressing preconceptions
* Safety
 | 20%Approx 8 questions |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas](http://www.nap.edu/read/13165/chapter/1) ● [TEDD – Science](http://tedd.org/?tedd_subject=science)
* [Next Generation Science Standards](http://www.nextgenscience.org/)
* [Understanding Science](http://undsci.berkeley.edu/)
* [Learning Science](http://www.learningscience.org/)
* [PhET Interactive simulations](http://phet.colorado.edu/)
* [FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education](http://www.nsf.gov/pubs/2000/nsf99148/start.htm) (EC/MC Gen

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit) |  |

**EA Science (cont.)**

|  |  |
| --- | --- |
|  | These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EMC English as a New Language**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1g1cafauH1Dm6zLOPveXoxCDWOe4KPuRy?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Culture and Diversity** [**(Standard II)**](https://drive.google.com/file/d/1s5Khoeyqv5pOOttA3fisLuSNWJttYxc6/view?usp=sharing)* Knowledge and

Understanding of Culture and Diversity Culturally* Responsive Learning Environments
* Student Advocacy
 | 20%Approx8questions |  |  |  |
| **Knowledge of the English Language (**[**Standard IV)**](https://drive.google.com/file/d/1o2_mOkexuY6euYBA3g-327A4o3XyZu3S/view?usp=sharing)* Listening
* Speaking
* Reading
* Writing
* Phonology
* Vocabulary
* Grammar
* Discourse
* Social English Language

Academic EnglishLanguage | 25%Approx 10 questions |  |  |  |
| **Knowledge of English Language Acquisition (**[**Standard V)**](https://drive.google.com/file/d/1CB9RavCx7j5VSl8f2L_vU459BSKpGGEr/view?usp=sharing)* Language Exposure
* Language Awareness
* Interaction and Practice ● Interdependence of Language and Content
* Interdependence of
 | 40%Approx 16 questions |  |  |  |

**EMC English as a New Language (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reading, Writing,Speaking, Listening, andVisual Literacy* Explicit Instruction
* Instructional Feedback
* Language Transfer
* Educational Background
* Culture and Socioeconomic Variables
* Age and Length of Time in the United States
* Other Factors
* Affecting Language Development
* Myths and Misconceptions about English Language

Acquisition |  |  |  |  |
| **Assessment (**[**Standard VII)**](https://drive.google.com/file/d/1jQuF-iU5h5BCFOtlWnKLiVXY735q2BvM/view?usp=sharing)* Variety in Assessment Techniques
* Initial Placement

Assessment | 15% |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [SFUSD Multilingual Pathways website](https://www.sfusdmultilingualpathways.org/)
* [Instructional Models and Strategies for Teaching English Language Learners](http://www.centeroninstruction.org/files/Instructional%20Models%20for%20ELLs.pdf) [- Practical Guidelines for the Education of English Language Learners](https://www2.ed.gov/about/inits/ed/lep-partnership/newcomers.pdf) ● [Research-Based Recommendations for Serving Adolescent Newcomers](https://www2.ed.gov/about/inits/ed/lep-partnership/newcomers.pdf) ● [TEDD – English Language Learners](http://tedd.org/?tedd_subject=english-language-learners)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**AYA Science-Earth/Space**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1R4MGaxEOiNbkLnZ2uvxN0_KS-K7Tqwnv?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Knowledge of Science Practices and Context (**[**Standard II)**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)* Nature of Science
* Understanding of Inquiry
* Context of Science
 | 20%Approx 8 questions |  |  |  |
| **Knowledge of Science Content**[**(Standard II**](https://drive.google.com/file/d/1uGNg91FaCrth7z_6QGvInSDoxAJD-wiQ/view?usp=sharing)**)*** Earth and Space Science
* Life Science
* Physical Science Chemistry
* Physical Science - Physics
 | 60%45% inspecialityApprox 18 questions15% from other disciplinesApprox 6 questions |  |  |  |
| **Curriculum, Instruction, and****Learning Environment (Standards** [**III,**](https://drive.google.com/file/d/13XIDnzmzrKQyMFxx-L2WkA2svkz925rd/view?usp=sharing)[**V**](https://drive.google.com/file/d/1E_RNW1Q8uz3DDXoEfOKWwNj2eRHizNTg/view?usp=sharing)**)*** Crosscutting Principles
* Assessing and addressing preconceptions
* Safety
 | 20%Approx 8 questions |  |  |  |

**AYA Science-Earth/Space (cont.)**

|  |  |
| --- | --- |
| **Resources recommended by NBCTs who have taken this assessment** | * [A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas](http://www.nap.edu/read/13165/chapter/1) ● [TEDD – Science](http://tedd.org/?tedd_subject=science)
* [Next Generation Science Standards](http://www.nextgenscience.org/)
* [Understanding Science](http://undsci.berkeley.edu/)
* [Learning Science](http://www.learningscience.org/)
* [PhET Interactive simulations](http://phet.colorado.edu/)
* [FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education](http://www.nsf.gov/pubs/2000/nsf99148/start.htm) (EC/MC Gen

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**MC Generalist**

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| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1taK5GLrngqMRhAg_QCzI-97eKwrFYJPH?usp=sharing)[**(Standard IV)**](https://drive.google.com/file/d/1a4B7DEBNVJa-koVxGMF6vnHSk2Lw0_VA/view?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **English Language Arts, the Arts, and Health and Wellness*** Balanced Literacy
* Choosing Texts
* Analyzing Texts
* Value and Purposes of Visual and Performing Arts through CrossCurricular

Contexts* Health Enhancing Skills
 | 30%Approx 12 questions |  |  |  |
| **Science and Mathematics** ● Number Sense andAlgebraic Thinking* Geometry
* Data Analysis Knowledge of Science Domains: Life, Earth/Space, and Physical

Sciences* Vocabulary of Science ● Misconceptions and

Evolution of ScientificThinking* Science Tools, Models, and

Representations andEngineering DesignPrinciples | 35%Approx 14 questions |  |  |  |
| **Social Studies**● Knowledge of Social Studies Content: History,Geography,Civics/Government, | 35%Approx 14 questions |  |  |  |

**MC Generalist (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Economics* Themes of Social Studies
* Primary and Secondary Sources and Critical

Thinking in Social Studies |  |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | Please see content specific resources[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EC Generalist**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1f6jUBEraJzTXuxXZckWwwtSKjm9WFcNG?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Child Development, Equity,****Fairness, and Appreciation of Diversity (Standards** [**I,**](https://drive.google.com/file/d/13M5R6M7DBonwLiac1EyVBnCUBTc-0m3P/view?usp=sharing)[**III)**](https://drive.google.com/file/d/13M5R6M7DBonwLiac1EyVBnCUBTc-0m3P/view?usp=sharing)* Fostering Cognitive Development
* Fostering Language Development
* Fostering Moral and Ethical Development
* Knowledge, Skills, and

Dispositions Related toEquity, Fairness, andDiversity | 20%Approx 12 questions |  |  |  |
| **Knowing and Integrating Subject****Matter: Language and Literacy,****Technology, Resources (Standards** [**IV**](https://drive.google.com/file/d/1Dk4AheWLF8Yo5EebGIjN-6ELLEBULqLB/view?usp=sharing)**,** [**VI)**](https://drive.google.com/file/d/1UqpyBTjSIZ9Ok4PTlxhGEqSHPDpDqoqY/view?usp=sharing)* Language and Literacy Listening and Speaking

Writing* Technology
* Learning Materials and Resources
 | 25%Approx14questions |  |  |  |
| **Knowing and Integrating Subject****Matter: Science, Social Studies,****Arts, Health, Physical Education** [**(Standard IV)**](https://drive.google.com/file/d/1Dk4AheWLF8Yo5EebGIjN-6ELLEBULqLB/view?usp=sharing)* Science
* Social Studies
* Visual Arts, Music, and

Drama Health and | 35%Approx 14 questions |  |  |  |

**EC Generalist (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Physical Education |  |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | Please see content specific resources[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |

**EAYA Physical Education**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| [**Standards Content**](https://drive.google.com/drive/folders/1E-VSl_Wv0xjld24pI0ELzMyRAYySXY9o?usp=sharing) | **% & #** | **Read Standards and Take Notes** | **Self-Assessment:****What are areas that you need to study/learn more about?** | **Resources: What are some resources you can turn to study/learn more?** |
| **Exercise Science (**[**Standard II)**](https://drive.google.com/file/d/1QJI96h4r6RSf6IDdbnaFc47Rj8MvLJ9b/view?usp=sharing)* Major muscle groups and functions
* Biomechanical principles
* Effects of physical activity on the human body, and exercise heart rate and recovery heart rate
 | 35%Approx 14 questions |  |  |  |
| **Motor Development, Motor Learning, and Movement Forms****in Context (**[**Standard II)**](https://drive.google.com/file/d/1QJI96h4r6RSf6IDdbnaFc47Rj8MvLJ9b/view?usp=sharing)* Progression from beginning to mature motor patterns, including fine and gross motor skills
* Developmentally appropriate movements and progressions
* Critical elements that promote skill acquisition
* Developmentally appropriate scope and sequence of movement forms
 | 35%Approx14questions |  |  |  |
| **Physical Activity and Wellness;****Legal and Safety Issues (Standards** [**II,**](https://drive.google.com/file/d/1QJI96h4r6RSf6IDdbnaFc47Rj8MvLJ9b/view?usp=sharing) **IV)*** Health- and skill-related components of physical activity
* FITT Principle guidelines
 | 30%Approx 12 questions |  |  |  |

**EAYA Physical Education (cont.)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| and principles of exercise* Basic nutrition principles and guidelines
* Comprehensive fitness, including hypokinetic conditions and the effect of behavioral choices on personal well- being
* Legal and safety issues, including applicable laws and initiatives related to the successful participation of all students, including

students with exceptionalities |  |  |  |  |
| **Resources recommended by NBCTs who have taken this assessment** | * [CA Physical Education Framework](http://www.cde.ca.gov/ci/pe/cf/documents/peframework2009.pdf)
* [Concepts and Principles of Physical Education, What Every Student Needs to Know by Bonnie Mohnsan.](http://www.amazon.com/Concepts-Principles-Physical-Education-Student/dp/0883147440)

[Full list for all certificate areas](https://docs.google.com/document/d/1NF25vBXQYvaqmUy2Gf6fuhcaJfHi7o7j22E_BMJQ9rA/edit)These resources have been suggested by teachers who have pursued National Board Certification. They are not endorsed by the National Board for Professional Teaching Standards. |