

EAYA Career and Technical Education

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Students and Program Design and Management (Standards I, VII)</p> <ul style="list-style-type: none"> ● Obtaining a Holistic View of Students ● Program Design <ul style="list-style-type: none"> ○ Assessing stakeholder needs to validate programs ○ Respond to stakeholder finding ○ Program ● Program Management <ul style="list-style-type: none"> ○ Monitor and maintain student data ○ Inventory and maintain resources 	<p>28%</p> <p>Approx 11 questions</p>			
<p>Learning Environment and Instructional Practices (Standard IV)</p> <ul style="list-style-type: none"> ● Contextualizing Education within the Learning Environment Maintaining a Safe Learning Environment ● Utilizing Technology 	<p>42%</p> <p>Approx 17 questions</p>			

Postsecondary Readiness (Standard VI) <ul style="list-style-type: none"> Defining Postsecondary Opportunities 	30% Approx 12			
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EAYA Career and Technical Education (cont.)

<ul style="list-style-type: none"> Pursuing Postsecondary Opportunities 	questions			
Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none"> National Educational Technology Standards: http://cnets.iste.org Computer educators: http://www.iste.org/standards/standards/standards-for-computer-science-educators CSET Ed Technology practice test (You must decide if these questions assess what your standards are assessing): <ul style="list-style-type: none"> • http://www.ctcexams.nesinc.com/TestView.aspx?f=HTML_FRAG/CA_CSET133_TestPage.html: (Links to an external site.) • Industrial and Tech Ed: http://www.ctcexams.nesinc.com/TestView.aspx?f=HTML_FRAG/CA_CSET184_TestPage.html <p>Full list for all certificate areas</p> <p>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.</p>			

EA English Language Arts

<u>Standards Content</u>	% & #	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?
<p>Reading and Viewing (Standard V)</p> <ul style="list-style-type: none"> ● The purposes of reading Genres ● Instructional strategies for reading and viewing maintain resources 	<p>40%</p> <p>Approx 16 questions</p>			
<p>Writing and Producing (Standard VI)</p> <ul style="list-style-type: none"> ● Knowledge about writing and producing ● Instructing students in writing and producing ● Resources for writing and producing ● Assessment of writing and producing 	<p>40%</p> <p>Approx 16 questions</p>			

<p>Speaking and Listening; Language Study (Standards VII and VIII)</p> <ul style="list-style-type: none"> • Pedagogy and strategies for teaching speaking and listening • Integration of speaking and listening with other strands of English language arts <ul style="list-style-type: none"> • The evolving nature of the English language • Language in context • Instructional approaches in 	<p>20%</p> <p>Approx 8 questions</p>			
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EA English Language Arts (cont.)

<p>the study of the English language</p>				
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> • CA ELA/ELD Framework • Lit-Centric Resource Page • Literacy Resources • TEDD – English Language Arts <p>Full list for all certificate areas</p> <p>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.</p>			

EMC Physical Education

<u>Standards Content</u>	% & #	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?
<p>Exercise Science (Standard II)</p> <ul style="list-style-type: none"> • Major muscle groups and functions • Biomechanical principles <ul style="list-style-type: none"> • Effects of physical activity on the human body, and exercise heart rate and recovery heart rate 	<p>35%</p> <p>Approx 14 questions</p>			
<p>Motor Development, Motor Learning, and Movement Forms in Context (Standard II)</p> <ul style="list-style-type: none"> • 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 	<p>35%</p> <p>Approx 14 questions</p>			

<p>Physical Activity and Wellness; Legal and Safety Issues (Standards II, IV)</p> <ul style="list-style-type: none"> ● Health- and skill-related components of physical activity ● FITT Principle guidelines 	<p>30%</p> <p>Approx 12 questions</p>			
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EMC Physical Education (cont.)

<p>and principles of exercise</p> <ul style="list-style-type: none"> ● 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 				
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Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none"> • CA Physical Education Framework • Concepts and Principles of Physical Education, What Every Student Needs to Know by Bonnie Mohnsan. <p>Full list for all certificate areas</p> <p>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.</p>
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EA Social Studies-History

Standards Content	% & #	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 IV) <ul style="list-style-type: none"> • Instructional Strategies • Resources 	25% Approx 10 questions			
Knowing Content—History (Standard III) <ul style="list-style-type: none"> • History • World History • United States History 	42% Approx 17 questions			

<p>Knowing Content—Social Studies (Standard III)</p> <ul style="list-style-type: none"> ● Economics ● Geography ● Civics and Government 	<p>33%</p> <p>Approx 13 questions</p>			
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> ● History - Social Science Framework ● Khan Academy ● Suggestions from SFUSD Candidates ● Best of History Websites ● Crash Course World history on Youtube ● Crash Course Economics <p>Full list for all certificate areas</p> <p>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.</p>			

ECYA Library Media

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Library and Information Studies (Standard III)</p> <ul style="list-style-type: none"> ● Principles of the Profession Effective Organization and Practice Collections ● Information Seeking ● Information and Communication Technologies 	<p>40%</p> <p>Approx 16 questions</p>			
<p>Administration (Standards V, VI, IX)</p> <ul style="list-style-type: none"> ● Evaluating the Library Media Program ● Technologies for Program Administration ● Outreach and Advocacy 	<p>25%</p> <p>Approx 10 questions</p>			

<p>Access, Equity, Diversity, and Ethics (Standards III, VII, VIII) • Access</p> <ul style="list-style-type: none"> • Practicing Professional Ethics • Knowledge of Ethical and Legal Tenets • Teaching Ethical Information Behavior and Digital Citizenship 	<p>35%</p> <p>Approx 14 questions</p>			
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ECYA Library Media (cont.)

<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> • Implementing the Common Core State Standards: The Role of the School Librarian <p>Full list for all certificate areas</p> <p>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.</p>
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EAYA World Languages (French)

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Language (Standard II)</p> <ul style="list-style-type: none"> ● Phonological Systems ● Knowledge of How Language Works ● Cultural Values ● Rhetorical and Stylistic Devices Geographical Variations ● Current Trends in Development of Target Language/Comparison of English and Target Language 	<p>50%</p> <p>Approx</p> <p>22 or 23</p> <p>questions</p>			
<p>Knowledge of Language Acquisition (Standard IV)</p> <ul style="list-style-type: none"> ● Current Theories and Research ● Learner Characteristics ● Learning Styles ● Instructional Strategies Competencies and Discourse Features ● Cultural Knowledge 	<p>50%</p> <p>Approx</p> <p>22 or 23</p> <p>questions</p>			

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">• CA World Language Framework• ACTFL French• CSET exam preparation site• Free Online Professional Development resources• AP workshop information for AP
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EAYA World Languages (French) (cont.)

	<p>Full list for all certificate areas</p> <p>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.</p>
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EAYA World Languages (Spanish)

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Language (Standard II)</p> <ul style="list-style-type: none"> ● Phonological Systems ● Knowledge of How Language Works ● Cultural Values ● Rhetorical and Stylistic Devices Geographical Variations ● Current Trends in Development of Target Language/Comparison of English and Target Language 	<p>50%</p> <p>Approx 22 or 23 questions</p>			
<p>Knowledge of Language Acquisition (Standard IV)</p> <ul style="list-style-type: none"> ● Current Theories and Research ● Learner Characteristics ● Learning Styles ● Instructional Strategies Competencies and Discourse Features ● Cultural Knowledge 	<p>50%</p> <p>Approx 22 or 23 questions</p>			

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">● CA World Language Framework● ACTFL Spanish● CSET exam preparation site● Free Online Professional Development resources● AP workshop information for AP
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EAYA World Languages (Spanish) (cont.)

	<p>Full list for all certificate areas</p> <p>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.</p>
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ECYA School Counseling

<u>Standards Content</u>	% & #	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?
<p>School Counseling Program, Leadership, Advocacy, and Professional Identity (Standards I, X)</p> <ul style="list-style-type: none"> ● Foundations of the program ● Accountability of the program ● Ethics 	<p>40% Approx 16 questions</p>			
<p>Human Growth and Development (Standard III) ●</p> <p>Theories of human growth and development and their application in working with individual students</p> <ul style="list-style-type: none"> ● Developmental stages <ul style="list-style-type: none"> ● 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 	<p>30% Approx 12 questions</p>			

ECYA School Counseling (cont.)

<p>Counseling Theories, Equity, and Fairness (Standards IV, V)</p> <ul style="list-style-type: none"> • 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 	<p>30% Approx 12 questions</p>			
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> • MastersInCounseling.org • A Framework for School Counseling Programs • ASCA – Ethical Standards for School Counselors <p>Full list for all certificate areas</p> <p>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.</p>			

EAYA Music

<u>Standards Content</u>	% & #	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 III) <ul style="list-style-type: none"> • Theory • History 	25% Approx 10 questions			
Facilitating Music Learning (Standard IV) <ul style="list-style-type: none"> • Curriculum • Instructional Strategies 	17% Approx 7 questions			
Specialized Skills and Knowledge (Standard IV) Path-Specific <ul style="list-style-type: none"> • Instrumental: Band or • Instrumental: Orchestra or • Vocal/General 	33% Approx 13 questions			

<p>Performing and Repertoire (Standards II, VI)</p> <ul style="list-style-type: none"> ● Performing Techniques ● Repertoire ● Connections to Other Disciplines ● Building Repertoires and Teaching Strategies that Include Music Chosen from a World Sample 	<p>25% Approx 10 questions</p>			
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EAYA Music (cont.)

<p>Resources recommended by NBCTs who have taken this assessment</p>	<p>Full list for all certificate areas</p> <p>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.</p>
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EMC Music

<u>Standards Content</u>	% & #	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 III) <ul style="list-style-type: none"> • Theory • History 	25% Approx 11 questions			
Facilitating Music Learning (Standard IV) <ul style="list-style-type: none"> • Curriculum • Instructional Strategies 	17% Approx 7 questions			
Specialized Skills and Knowledge (Standard IV) Path-Specific <ul style="list-style-type: none"> • Instrumental: Band or • Instrumental: Orchestra or • Vocal/General 	33% Approx 13 questions			

<p>Performing and Repertoire (Standards II, VI)</p> <ul style="list-style-type: none"> • Performing Techniques • Repertoire • Connections to Other Disciplines • Building Repertoires and Teaching Strategies that Include Music Chosen from a World Sample 	<p>25%</p> <p>Approx 10 questions</p>			
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EMC Music (cont.)

<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> • https://www.pinterest.com/pin/775533998325442972/ <p>Full list for all certificate areas</p> <p>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.</p>
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EA Math

<p><u>Standards Content</u></p> <p><u>Standard II</u></p>	<p>% & #</p>	<p>Read Standards and Take Notes</p>	<p>Self-Assessment: What are areas that you need to study/learn more about?</p>	<p>Resources: What are some resources you can turn to study/learn more?</p>
<p>Contexts for Mathematics</p> <ul style="list-style-type: none"> ● Historical Development of Mathematical Ideas ● Mathematical Applications in Fields Related to Mathematics ● Precise Communication of Mathematical Ideas 	<p>15%</p> <p>Approx 6 questions</p>			
<p>Problem Solving and Number Sense</p> <ul style="list-style-type: none"> ● Numbers and Operations ● Algebra and Functions ● Geometry 	<p>45%</p> <p>Approx 18 questions</p>			
<p>Modeling and Analysis</p> <ul style="list-style-type: none"> ● Trigonometry ● Discrete Mathematics ● Data Analysis and Statistics ● Calculus 	<p>40%</p> <p>Approx 16 questions</p>			

EA Math (cont.)

**Resources recommended
by NBCTs who have taken
this assessment**

- [CA Mathematics Framework](#)
- [PhET Interactive simulations](#)
- [Mathematics Instructions for Students with Learning Disabilities or Difficulty Learning Mathematics](#)
- [TEDD – Mathematics](#)

[Full list for all certificate areas](#)

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

<p><u>Standards Content</u></p> <p><u>Standard II</u></p>	<p>% & #</p>	<p>Read Standards and Take Notes</p>	<p>Self-Assessment: What are areas that you need to study/learn more about?</p>	<p>Resources: What are some resources you can turn to study/learn more?</p>
<p>Contexts for Mathematics</p> <ul style="list-style-type: none"> ● Historical Development of Mathematical Ideas ● Mathematical Applications in Fields Related to Mathematics ● Precise Communication of Mathematical Ideas 	<p>15%</p> <p>Approx 6 questions</p>			
<p>Problem Solving and Number Sense</p> <ul style="list-style-type: none"> ● Numbers and Operations ● Algebra and Functions ● Geometry 	<p>450</p> <p>Approx 16 questions</p>			
<p>Modeling and Analysis</p> <ul style="list-style-type: none"> ● Trigonometry ● Discrete Mathematics ● Data Analysis and Statistics ● Calculus 	<p>45%</p> <p>Approx 18 questions</p>			

AYA Math (cont.)

**Resources recommended
by NBCTs who have taken
this assessment**

- [CA Mathematics Framework](#)
- [PhET Interactive simulations](#)
- [Mathematics Instructions for Students with Learning Disabilities or Difficulty Learning Mathematics](#)
- [TEDD – Mathematics](#)

[Full list for all certificate areas](#)

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AYA Social Studies-History

<u>Standards Content</u>	% & #	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 IV) <ul style="list-style-type: none"> ● Instructional Strategies ● Resources 	25% Approx 10 questions			
Knowing Content—History (Standard III) <ul style="list-style-type: none"> ● History ● World History ● United States History 	42% Approx 17 questions			
Knowing Content—Social Studies (Standard III) <ul style="list-style-type: none"> ● Economics ● Geography ● Civics and Government 	33% Approx 13 questions			

**Resources recommended
by NBCTs who have taken
this assessment**

- [History - Social Science Framework](#)
- [Khan Academy](#)
- [Suggestions from SFUSD Candidates](#)
- [Best of History Websites](#)
- [Crash Course World history on Youtube](#)
- [Crash Course Economics](#)

[Full list for all certificate areas](#)

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

<u>Standards Content</u>	% & #	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) <ul style="list-style-type: none"> ● Nature of Science ● Understanding of Inquiry ● Context of Science 	20% Approx 8 questions			
Knowledge of Science Content (Standard II) <ul style="list-style-type: none"> ● Earth and Space Science ● Life Science ● Physical Science - Chemistry ● Physical Science - Physics 	60% 45% in speciality Approx 18 questions 15% from other disciplines Approx 7 questions			
Curriculum, Instruction, and Learning Environment (Standards III, V) <ul style="list-style-type: none"> ● Crosscutting Principles ● Assessing and addressing preconceptions 	20% Approx 8 questions			

• Safety				
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AYA Science-Physics (cont.)

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">• A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas• TEDD – Science• Next Generation Science Standards• Understanding Science• Learning Science• PhET Interactive simulations• FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education (EC/MC Gen) <p>Full list for all certificate areas</p> <p>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.</p>
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AYA Science-Chemistry

<u>Standards Content</u>	% & #	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) <ul style="list-style-type: none"> ● Nature of Science ● Understanding of Inquiry ● Context of Science 	20% Approx 8 questions			
Knowledge of Science Content (Standard II) <ul style="list-style-type: none"> ● Earth and Space Science ● Life Science ● Physical Science - Chemistry ● Physical Science - Physics 	60% 45% in speciality Approx 18 questions 15% from other disciplines Approx 6 questions			
Curriculum, Instruction, and Learning Environment (Standards III, V) <ul style="list-style-type: none"> ● Crosscutting Principles ● Assessing and addressing preconceptions 	20% Approx 8 questions			

- Safety

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](#)
- [TEDD – Science](#)
- [Next Generation Science Standards](#)
- [Understanding Science](#)
- [Learning Science](#)
- [PhET Interactive simulations](#)
- [FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education](#) (EC/MC Gen

[Full list for all certificate areas](#)

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ECYA Exceptional Needs Specialist

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Students and Knowledge of Philosophy, History and Law (Standards I and II)</p> <ul style="list-style-type: none"> ● Child Growth and Development ● Effective Advocacy: Knowledge of Philosophy, History, and Law ● Exemplifying High Ethical Ideals 	<p>20%</p> <p>Approx 8 questions</p>			
<p>Diversity and Family Partnerships (Standards III and IV)</p> <ul style="list-style-type: none"> ● Creating Equitable, Fair, and Diverse Environments <ul style="list-style-type: none"> ● Ensuring Access to Quality Learning Experiences ● Collaborating with Parents to Support Students' Education 	<p>20%</p> <p>Approx 8 questions</p>			

<p>Communication and Social Development and Behavior (Standards VI and VII)</p> <ul style="list-style-type: none"> ● Understanding Language Acquisition and Development ● Using Unique Strategies to Develop Communication 	<p>30%</p> <p>Approx 12 questions</p>			
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ECYA Exceptional Needs Specialist (cont.)

<p>Skills</p> <ul style="list-style-type: none"> ● Collaborating with Others to Facilitate Student Language Development ● Teaching and Fostering Social Skills ● Developing Students' Self-Confidence and Self-Determination <ul style="list-style-type: none"> ● Fostering and Supporting Positive Behavior 				
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<p>Assessment and Curriculum and Instruction (Standards V and VIII)</p> <ul style="list-style-type: none"> ● Using Diverse Assessment Methods for Different Purposes ● Academic Core Curriculum – Literacy ● Individualizing Curriculum and Integrating Life Skills Development Across Disciplines, Contexts, and Settings ● Fostering Student Transitions and Career Development 	<p>30%</p> <p>Approx 12 questions</p>			
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> ● Community Alliance for Special Education ● The Individuals with Disabilities Education Act (IDEA) ● Additional resources from SFUSD Candidates <p>Full list for all certificate areas</p>			

ECYA Exceptional Needs Specialist (cont.)

	<p>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.</p>
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EAYA Art

<u>Standards Content</u>	% & #	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?
<p>Art Education (Standards I, III, V, VIII)</p> <ul style="list-style-type: none"> ● Goals of Art Education <ul style="list-style-type: none"> ● Reflecting on the Goals of Art Education in Order to Make Principled Decisions about Practice <ul style="list-style-type: none"> ● 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 <ul style="list-style-type: none"> ● Helping Students Experience and Understand Art ● Creating and Maintaining 	<p>35%</p> <p>Approx 14 questions</p>			

Healthy and Safe Learning Environments				
Content and Creation of Art (Standard IV) • 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	14 questions			
Study of Art (Standard IV) 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	<ul style="list-style-type: none"> • CA Visual & Performing Arts Framework • Creativity at the Core • National Core Arts Standards • The Arts and Common Core • The J. Paul Getty Museum-Resources <p>Full list for all certificate areas</p> <p>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.</p>			

EAYA English as a New Language

<u>Standards Content</u>	% & #	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) <ul style="list-style-type: none"> ● Knowledge and Understanding of Culture and Diversity Culturally Responsive Learning Environments ● Student Advocacy 	20% Approx 8 questions			
Knowledge of the English Language (Standard IV) <ul style="list-style-type: none"> ● Listening ● Speaking ● Reading ● Writing ● Phonology ● Vocabulary ● Grammar Discourse ● Social English Language ● Academic English Language 	25% Approx 10 questions			

<p>Knowledge of English Language Acquisition (Standard V)</p> <ul style="list-style-type: none"> ● Language Exposure ● Language Awareness ● Interaction and Practice ● Interdependence of Language and Content ● Interdependence of Reading, Writing, Speaking, Listening, and 	<p>40%</p> <p>Approx 16 questions</p>			
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EAYA English as a New Language (cont.)

<p>Visual Literacy</p> <ul style="list-style-type: none"> ● 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 <ul style="list-style-type: none"> ● Myths and Misconceptions about English Language Acquisition 				
<p>Assessment (Standard VII) Variety in Assessment</p> <ul style="list-style-type: none"> ● Techniques 	<p>15%</p> <p>Approx. 7 questions</p>			

<ul style="list-style-type: none">● Initial Placement Assessment				
Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">● CA ELA/ELD Framework● Lit-Centric Resource Page● Literacy Resources● TEDD – English Language Arts <p>Full list for all certificate areas\</p> <p>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.</p>			

AYA Science - Biology

<u>Standards Content</u>	% & #	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) <ul style="list-style-type: none"> ● Nature of Science ● Understanding of Inquiry ● Context of Science 	20% Approx 8 questions			
Knowledge of Science Content (Standard II) <ul style="list-style-type: none"> ● Earth and Space Science ● Life Science ● Physical Science - Chemistry ● Physical Science - Physics 	60% 45% in speciality Approx 18 questions 15% from other disciplines Approx 6 questions			
Curriculum, Instruction, and Learning Environment (Standards III, V) <ul style="list-style-type: none"> ● Crosscutting Principles ● Assessing and addressing preconceptions ● Safety 	20% Approx 8 questions			

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">● A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas● TEDD – Science● Next Generation Science Standards● Understanding Science● Learning Science● PhET Interactive simulations
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AYA Science - Biology (cont.)

	<ul style="list-style-type: none">● FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education (EC/MC Gen) <p>Full list for all certificate areas</p> <p>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.</p>
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EMC Art

<u>Standards Content</u>	% & #	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?
<p>Art Education (Standards I, III, V, VII)</p> <ul style="list-style-type: none"> ● 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 <ul style="list-style-type: none"> ● Goals of General Education and Lifelong Learning ● Making Connections to the Cultures of Communities ● Guarding Against Bias and Stereotype <ul style="list-style-type: none"> ● Building Curriculum on the Goals of Art Education ● Creating and Maintaining Healthy and Safe Learning Environments 	<p>35%</p> <p>Approx 14 questions</p>			

Content of Art and Art Making (Standard IV) <ul style="list-style-type: none"> ● Art Making ● Technology ● Art Criticism ● Art History ● Aesthetics 	35% Approx 14 questions			
Complex Attributes of Works of	30%			

EMC Art (cont.)

Art (Standard IV) <ul style="list-style-type: none"> ● Classification of Art Forms and Types ● Expressive Qualities of Art ● Universal Themes or Ideas ● Context of Art 	Approx 12 questions			
Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none"> ● CA Visual & Performing Arts Framework ● Creativity at the Core ● National Core Arts Standards ● The Arts and Common Core ● The J. Paul Getty Museum-Resources <p>Full list for all certificate areas</p> <p>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.</p>			

AYA English Language Arts

<u>Standards Content</u>	% & #	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 V) <ul style="list-style-type: none"> ● The purposes of reading ● Genres ● Instructional strategies for reading and viewing 	40% Approx 16 questions			
Writing and Producing (Standard VI) <ul style="list-style-type: none"> ● 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			

<p>Speaking and Listening; Language Study (Standards VII and VIII)</p> <ul style="list-style-type: none"> ● Pedagogy and strategies for teaching speaking and listening ● Integration of speaking and listening with other strands of English language arts <ul style="list-style-type: none"> ● The evolving nature of the English language ● Language in context <ul style="list-style-type: none"> ● Instructional approaches in the study of the English 	<p>20%</p> <p>Approx 8 questions</p>			
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AYA English Language Arts (cont.)

<p>language</p>				
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> ● CA ELA/ELD Framework ● Lit-Centric Resource Page ● Literacy Resources ● TEDD – English Language Arts <p>Full list for all certificate areas</p> <p>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.</p>			

EAYA Health

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Subject Matter/Personal Health (Standard II)</p> <ul style="list-style-type: none"> ● Personal Health ● Nutrition ● Prevention and Control of Disease ● Mental and Emotional Health Substance Use and Abuse 	<p>25%</p> <p>Approx 10 questions</p>			
<p>Knowledge of Subject Matter/Environmental and Consumer Health (Standard II)</p> <ul style="list-style-type: none"> ● Injury Prevention and Safety ● Consumer Health Environmental Health ● Dynamic, Relevant, and Practical Knowledge for Teaching Health Education 	<p>20%</p> <p>Approx 8 questions</p>			

EAYA Health (cont.)

<p>Skills-based Learning/The Individual (Standard III)</p> <ul style="list-style-type: none"> ● Goal-setting ● Decision-making ● Problem-solving skills ● Stress management ● Identification and evaluation of and access to health information and health-promoting products and services 	<p>25%</p> <p>Approx 10 questions</p>			
<p>Skills-based Learning/Interacting with Others (Standard III)</p> <ul style="list-style-type: none"> ● Interpersonal communication ● Strategies to resolve conflicts <ul style="list-style-type: none"> ● Effective ways to influence and support others in making positive health choices ● Refusal skills ● Assertiveness ● Negotiation and collaboration techniques <ul style="list-style-type: none"> ● Influence of various factors such as peers, cultural beliefs, the media, and technology on health 	<p>30%</p> <p>Approx 12 questions</p>			

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">• CA Health Framework <p>Full list for all certificate areas</p>
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EAYA Health (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.
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EMC Literacy/Reading-Language Arts

<u>Standards Content</u>	% & #	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?
<p>Knowledge of Learners and Collaborating with Families (Standards I, XII)</p> <ul style="list-style-type: none"> ● 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 	<p>20%</p> <p>Approx 8 questions</p>			
<p>Equity, Fairness, and Diversity; the Learning Environment; and Literacy Assessment (Standards II, III, IV, V)</p> <ul style="list-style-type: none"> ● Promoting Fairness and Equity Establishing the Intellectual Environment ● Selecting Resources <ul style="list-style-type: none"> ● Knowledge of Assessment and Selecting and Administering Assessments 	<p>25%</p> <p>Approx 10 questions</p>			

EMC Literacy/Reading-Language Arts (cont.)

<p>Reading and Writing (Standards VI and VII)</p> <ul style="list-style-type: none"> ● Knowledge and Instruction of Reading ● Knowledge and Instruction of Writing ● Connections of Reading and Writing to the Other Language Arts and to Other Discipline 	<p>20%</p> <p>Approx 8 questions</p>			
<p>Listening and Speaking; Viewing and Visual Literacy (Standards VIII and IX)</p> <ul style="list-style-type: none"> ● Knowledge and Instruction of Listening and Speaking <ul style="list-style-type: none"> ● Knowledge and Instruction of Viewing and Visual Literacy 	<p>35%</p> <p>Approx 14 questions</p>			

**Resources recommended
by NBCTs who have taken
this assessment**

- [Suggestions from SFUSD Candidate](#)

[Full list for all certificate areas](#)

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

<u>Standards Content</u>	% & #	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) <ul style="list-style-type: none"> ● Nature of Science ● Understanding of Inquiry ● Context of Science 	30% Approx 12 questions			
Knowledge of Science Content (Standard II) <ul style="list-style-type: none"> ● Earth and Space Science ● Life Science ● Physical Science 	50% Approx 20 questions			
Curriculum, Instruction, and Learning Environment (Standards III, V) <ul style="list-style-type: none"> ● Crosscutting Principles ● Assessing and addressing preconceptions ● Safety 	20% Approx 8 questions			

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">● A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas● TEDD – Science● Next Generation Science Standards● Understanding Science● Learning Science● PhET Interactive simulations● FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education (EC/MC Gen <p>Full list for all certificate areas</p>
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EA Science (cont.)

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EMC English as a New Language

<u>Standards Content</u>	% & #	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 (<u>Standard II</u>) <ul style="list-style-type: none"> ● Knowledge and Understanding of Culture and Diversity Culturally ● Responsive Learning Environments ● Student Advocacy 	20% Approx 8 questions			
Knowledge of the English Language (<u>Standard IV</u>) <ul style="list-style-type: none"> ● Listening ● Speaking ● Reading ● Writing ● Phonology ● Vocabulary ● Grammar ● Discourse <ul style="list-style-type: none"> ● Social English ● Language Academic English ● Language 	25% Approx 10 questions			

<p>Knowledge of English Language Acquisition (Standard V)</p> <ul style="list-style-type: none"> ● Language Exposure ● Language Awareness ● Interaction and Practice ● Interdependence of Language and Content ● Interdependence of 	<p>40%</p> <p>Approx 16 questions</p>			
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EMC English as a New Language (cont.)

<p>Reading, Writing, Speaking, Listening, and Visual Literacy</p> <ul style="list-style-type: none"> ● 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 <ul style="list-style-type: none"> ● Myths and Misconceptions about English Language Acquisition 				
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<p>Assessment (Standard VII) • Variety in Assessment Techniques</p> <ul style="list-style-type: none"> • Initial Placement Assessment 	<p>15% Approx 7 questions</p>			
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> • SFUSD Multilingual Pathways website • Instructional Models and Strategies for Teaching English Language Learners - Practical Guidelines for the Education of English Language Learners • Research-Based Recommendations for Serving Adolescent Newcomers • TEDD – English Language Learners <p>Full list for all certificate areas</p> <p>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.</p>			

AYA Science-Earth/Space

<u>Standards Content</u>	% & #	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) <ul style="list-style-type: none"> ● Nature of Science ● Understanding of Inquiry ● Context of Science 	20% Approx 8 questions			
Knowledge of Science Content (Standard II) <ul style="list-style-type: none"> ● Earth and Space Science ● Life Science ● Physical Science - Chemistry ● Physical Science - Physics 	60% 45% in speciality Approx 18 questions 15% from other disciplines Approx 6 questions			
Curriculum, Instruction, and Learning Environment (Standards III, V) <ul style="list-style-type: none"> ● Crosscutting Principles ● Assessing and addressing preconceptions 	20% Approx 8 questions			

• Safety				
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AYA Science-Earth/Space (cont.)

Resources recommended by NBCTs who have taken this assessment	<ul style="list-style-type: none">• A Framework for K-12 Science Education: Practices, Crosscutting Concepts and Core Ideas• TEDD – Science• Next Generation Science Standards• Understanding Science• Learning Science• PhET Interactive simulations• FOUNDATIONS: A monograph for professionals in science, mathematics, and technology education (EC/MC Gen) <p>Full list for all certificate areas</p> <p>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.</p>
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MC Generalist

<p><u>Standards Content</u> (<u>Standard IV</u>)</p>	<p>% & #</p>	<p>Read Standards and Take Notes</p>	<p>Self-Assessment: What are areas that you need to study/learn more about?</p>	<p>Resources: What are some resources you can turn to study/learn more?</p>
<p>English Language Arts, the Arts, and Health and Wellness</p> <ul style="list-style-type: none"> ● Balanced Literacy ● Choosing Texts ● Analyzing Texts ● Value and Purposes of Visual and Performing Arts through CrossCurricular Contexts ● Health Enhancing Skills 	<p>30%</p> <p>Approx 12 questions</p>			
<p>Science and Mathematics</p> <ul style="list-style-type: none"> ● Number Sense and Algebraic Thinking ● Geometry ● Data Analysis ● Knowledge of Science Domains: Life, Earth/Space, and Physical Sciences ● Vocabulary of Science ● Misconceptions and Evolution of Scientific Thinking ● Science Tools, Models, and Representations and Engineering Design Principles 	<p>35%</p> <p>Approx 14 questions</p>			

<p>Social Studies</p> <ul style="list-style-type: none"> • Knowledge of Social Studies Content: History, Geography, Civics/Government, 	<p>35%</p> <p>Approx 14 questions</p>			
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MC Generalist (cont.)

<p>Economics</p> <ul style="list-style-type: none"> • Themes of Social Studies • Primary and Secondary Sources and Critical Thinking in Social Studies 				
<p>Resources recommended by NBCTs who have taken this assessment</p>	<p>Please see content specific resources</p> <p>Full list for all certificate areas</p> <p>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.</p>			

EC Generalist

<u>Standards Content</u>	% & #	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?
<p>Child Development, Equity, Fairness, and Appreciation of Diversity (Standards I, III)</p> <ul style="list-style-type: none"> ● Fostering Cognitive Development ● Fostering Language Development ● Fostering Moral and Ethical Development ● Knowledge, Skills, and Dispositions Related to Equity, Fairness, and Diversity 	<p>20%</p> <p>Approx 12 questions</p>			
<p>Knowing and Integrating Subject Matter: Language and Literacy, Technology, Resources (Standards IV, VI)</p> <ul style="list-style-type: none"> ● Language and Literacy Listening and Speaking Writing ● Technology ● Learning Materials and Resources 	<p>25%</p> <p>Approx 14 questions</p>			

<p>Knowing and Integrating Subject Matter: Science, Social Studies, Arts, Health, Physical Education (Standard IV)</p> <ul style="list-style-type: none"> • Science • Social Studies • Visual Arts, Music, and Drama Health and 	<p>35%</p> <p>Approx 14 questions</p>			
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EC Generalist (cont.)

<p>Physical Education</p>				
<p>Resources recommended by NBCTs who have taken this assessment</p>	<p>Please see content specific resources</p> <p>Full list for all certificate areas</p> <p>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.</p>			

EAYA Physical Education

<u>Standards Content</u>	% & #	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?
<p>Exercise Science (Standard II)</p> <ul style="list-style-type: none"> • Major muscle groups and functions <ul style="list-style-type: none"> • Biomechanical principles <ul style="list-style-type: none"> • Effects of physical activity on the human body, and exercise heart rate and recovery heart rate 	<p>35% Approx 14 questions</p>			
<p>Motor Development, Motor Learning, and Movement Forms in Context (Standard II)</p> <ul style="list-style-type: none"> • 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 	<p>35% Approx 14 questions</p>			

<p>Physical Activity and Wellness; Legal and Safety Issues (Standards II, IV)</p> <ul style="list-style-type: none"> • Health- and skill-related components of physical activity • FITT Principle guidelines 	<p>30% Approx 12 questions</p>			
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EAYA Physical Education (cont.)

<p>and principles of exercise</p> <ul style="list-style-type: none"> • 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 				
<p>Resources recommended by NBCTs who have taken this assessment</p>	<ul style="list-style-type: none"> • CA Physical Education Framework • Concepts and Principles of Physical Education, What Every Student Needs to Know by Bonnie Mohnsan. <p>Full list for all certificate areas</p> <p>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.</p>			

