

2013 ACA Math Specialist Rubric

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by Liberty SOE Admin

Assessment

Math Specialist ACA Rubric

	MET: Distinguished (4 pts)	MET: Advanced (3 pts)	MET: Proficient (2 pts)	NOT MET: Unsatisfactory (1 pt)	NOT MET: No Evidence
<p>Completion at least three years of successful classroom teaching experience in which the teaching of mathematics was an important responsibility. (1, 7%) VA-LRSP.6.8VAC20-22-610.1 VA-LU-LO.ADV.A1</p>					
<p>An understanding of the knowledge, skills, and processes of the Virginia Mathematics Standards of Learning and how curriculum may be organized to teach these standards to diverse learners. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.a VA-LU-LO.ADV.B4 VA-LU-LO.ADV.B5</p>					
<p>An understanding of a core knowledge base of concepts and procedures within the discipline of mathematics, including the following strands: number systems and number theory; geometry and measurement; statistics and probability; and functions and algebra. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.b VA-LU-LO.ADV.A1 VA-LU-LO.ADV.A2</p>					
<p>An understanding of the sequential nature of mathematics and the mathematical structures inherent in the content strands. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.c VA-LU-LO.ADV.A1</p>					
<p>An understanding of the connections among mathematical concepts and procedures and their practical applications. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.d VA-LU-LO.ADV.A2</p>					
<p>An understanding of and the ability to use the five processes – becoming mathematical problem solvers, reasoning mathematically, communicating mathematically, making mathematical connections, and using mathematical representations – at different levels of complexity. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.e VA-LU-LO.ADV.A1 VA-LU-LO.ADV.A2</p>					
<p>An understanding of the history of mathematics, including the contributions</p>					

<p>of different individuals and cultures toward the development of mathematics and the role of mathematics in culture and society. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.f VA-LU-LO.ADV.A2</p>					
<p>An understanding of major current curriculum studies and trends in mathematics. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.g VA-LU-LO.ADV.A2 VA-LU-LO.ADV.B5</p>					
<p>An understanding of the role of technology and the ability to use graphing utilities and computers in the teaching and learning of mathematics. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.h VA-LU-LO.ADV.B8 VA-LU-LO.ADV.B9</p>					
<p>Understanding of and the ability to use strategies for managing, assessing, and monitoring student learning, including diagnosing student errors. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.j VA-LU-LO.ADV.B7 VA-LU-LO.ADV.B8</p>					
<p>An understanding of and the ability to use strategies to teach mathematics to diverse learners. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.k VA-LU-LO.ADV.C11 VA-LU-LO.ADV.C12</p>					
<p>An understanding of leadership skills needed to improve mathematics programs at the school and division levels, including the needs of high and low-achieving students and of strategies to challenge them at appropriate levels; child psychology, including personality and learning behaviors; educational measurement and evaluation; and effective professional development approaches. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.l VA-LU-LO.ADV.B3 VA-LU-LO.ADV.B8 VA-LU-LO.ADV.C12 VA-LU-LO.ADV.C13 VA-LU-LO.ADV.C14</p>					
<p>An understanding of and proficiency in grammar, usage, and mechanics and their integration in writing. (1, 7%) VA-LRSP.6.8VAC20-22-610.2.m VA-LU-LO.ADV.B3</p>					

Standards

VA-LRSP.6.8VAC20-22-610.1	Completed at least three years of successful classroom teaching experience in which the teaching of mathematics was an important responsibility; and
VA-LRSP.6.8VAC20-22-610.2.a	Understanding of the knowledge, skills, and processes of the Virginia Mathematics Standards of Learning and how curriculum may be organized to teach these standards to diverse learners;
VA-LRSP.6.8VAC20-22-610.2.b	Understanding of a core knowledge base of concepts and procedures

within the discipline of mathematics, including the following strands: number systems and number theory; geometry and measurement; statistics and probability; and functions and algebra;

VA-LRSP.6.8VAC20-22-610.2.c	Understanding of the sequential nature of mathematics and the mathematical structures inherent in the content strands;
VA-LRSP.6.8VAC20-22-610.2.d	Understanding of the connections among mathematical concepts and procedures and their practical applications;
VA-LRSP.6.8VAC20-22-610.2.e	Understanding of and the ability to use the five processes – becoming mathematical problem solvers, reasoning mathematically, communicating mathematically, making mathematical connections, and using mathematical representations – at different levels of complexity;
VA-LRSP.6.8VAC20-22-610.2.f	Understanding of the history of mathematics, including the contributions of different individuals and cultures toward the development of mathematics and the role of mathematics in culture and society;
VA-LRSP.6.8VAC20-22-610.2.g	Understanding of major current curriculum studies and trends in mathematics;
VA-LRSP.6.8VAC20-22-610.2.h	Understanding of the role of technology and the ability to use graphing utilities and computers in the teaching and learning of mathematics;
VA-LRSP.6.8VAC20-22-610.2.j	Understanding of and the ability to use strategies for managing, assessing, and monitoring student learning, including diagnosing student errors;
VA-LRSP.6.8VAC20-22-610.2.k	Understanding of and the ability to use strategies to teach mathematics to diverse learners;
VA-LRSP.6.8VAC20-22-610.2.l	Understanding of leadership skills needed to improve mathematics programs at the school and division levels, including the needs of high and low-achieving students and of strategies to challenge them at appropriate levels; child psychology, including personality and learning behaviors; educational measurement and evaluation; and effective professional development approaches; and
VA-LRSP.6.8VAC20-22-610.2.m	Understanding of and proficiency in grammar, usage, and mechanics and their integration in writing.
VA-LU-LO.ADV.A1	Demonstrates a broad base of professional and general knowledge.
VA-LU-LO.ADV.A2	Conceptualizes a broad spectrum of educational precepts, generalizations, practices, dispositions, points of view, and resources.
VA-LU-LO.ADV.B3	Integrates skills in speaking, writing, reading, and listening for effective classroom communication, peer leadership, and professional involvement.
VA-LU-LO.ADV.B4	Designs and selects a variety of instructional strategies based on the developmental levels and individual needs of the learner.
VA-LU-LO.ADV.B5	Applies knowledge of content areas and curriculum goals to design and supervise appropriate instruction.
VA-LU-LO.ADV.B7	Integrates a variety of assessment strategies to improve student learning.
VA-LU-LO.ADV.B8	Integrates appropriate technology and resources to support instruction and to facilitate professional development opportunities.
VA-LU-LO.ADV.B9	Demonstrates competence as a consumer of research findings and

other information technology resources.

VA-LU-LO.ADV.C11

Models personal integrity and sensitivity to human needs.

VA-LU-LO.ADV.C12

Enhances the success of all diverse learners, providing for special needs and diverse backgrounds.

VA-LU-LO.ADV.C13

Demonstrates behaviors of a reflective practitioner and seeks opportunities for collaboration and professional development.

VA-LU-LO.ADV.C14

Exerts confident leadership as well as accepts responsibility in the broad field of education.

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