

<b>MISSOURI STATE BOARD OF EDUCATION AGENDA ITEM:</b>		<b>June 2016</b>		
<p>CONSIDERATION TO APPROVE THE MISSOURI QUALIFYING SCORES FOR THE MISSOURI CONTENT ASSESSMENTS EFFECTIVE AUGUST 29, 2016</p>				
<b>STATUTORY AUTHORITY:</b>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<p>Sections 161.092, 168.011, 168.021, 168.071, 168.081, 168.400, 168.405, and 168.409, RSMo</p>		<p>Consent Item</p>	<p>Action Item</p>	<p>Report Item</p>
<p>DEPARTMENT GOAL NO. 3:</p> <p>Missouri will prepare, develop, and support effective educators.</p> <p>SUMMARY:</p> <p>The Missouri Content Assessments were first implemented in September 2014. Since that time, the Department of Elementary and Secondary Education (DESE) continues to review the results of test-takers to determine if changes are needed to the current qualifying scores. The Missouri Advisory Council for the Certification of Educators (MACCE) and the Missouri Advisory Board for Educator Preparation (MABEP) have reviewed the results and made recommendations for the Missouri qualifying scores effective August 29, 2016. A list of approved assessments as well as a data table outlining the results and specific notations for the Missouri Content Assessments is included.</p> <p>PRESENTERS:</p> <p>Paul Katnik, Assistant Commissioner, and Gale “Hap” Hairston, Director, Educator Preparation, Office of Educator Quality will assist with the presentation and discussion of this agenda item.</p> <p>RECOMMENDATION:</p> <p>The Department recommends maintaining all existing qualifying scores for the Missouri Content Assessments and approving the School Psychologist Assessment with a qualifying score of 147.</p>				

Missouri Department of Elementary and Secondary Education										
Missouri Content Assessments										
June 14, 2016										
Test Title (N ≥ 30)	Possible (1)	Scorable (2)	PBS <sup>(3)</sup> Correct	Year	First Attempt <sup>(4)</sup>		Best Attempt <sup>(5)</sup>		All Test Takers <sup>(6)</sup>	
					N	%	N	%	N	%
Early Childhood Education	100	80	56	14-15	378	72.8			689	78.4
				15-16	334	72.2	1038	89.0	510	74.5
Elementary Education: Language Arts <sup>(7)</sup>	40	32	20	14-15	1555	62.8			1933	63.4
				15-16	1313	65.5	2698	87.0	1582	64.7
Elementary Education: Mathematics <sup>(7)</sup>	40	32	19	14-15	1474	72.1			1841	72.1
				15-16	1163	78.2	2707	89.0	1388	78.1
Elementary Education: Science <sup>(7)</sup>	40	32	19	14-15	1574	61.3			1944	62.9
				15-16	1331	66.0	2701	84.0	1586	66.5
Elementary Education Social Science <sup>(7)</sup>	40	32	19	14-15	1641	57.5			2022	59.0
				15-16	1393	60.7	2694	82.0	1669	61.0
Elementary Mathematics Specialist	100	80	49	15-16	N ≤ 30					
Middle School Education Language Arts	100	80	52	14-15	152	59.9			398	69.1
				15-16	109	67.9	571	81.0	262	71.4
Middle School Education Mathematics <sup>(8,9)</sup>	100	80	49	14-15	251	35.9			517	36.9
	80	64	39	15-16	136	60.3	2147	65.0	247	56.3
Middle School Education Science <sup>(8,9)</sup>	100	80	46	14-15	150	50.0			328	50.3
	80	64	37	15-16	89	51.7	138	65.0	170	52.9
Middle School Education Social Science <sup>(8,9)</sup>	100	80	49	14-15	176	39.8			347	50.4
	80	64	40	15-16	127	50.4	176	70.0	213	58.2

1) Possible – total items on the assessment

2) Scorable – items that count toward the qualifying score

3) PBS – panel based cut score (recommended score)

4) 1<sup>st</sup> Attempt – first time assessment was taken

5) Best Attempt – passing score/no regard for # of attempts

6) All test-takers – includes both initial certificates and add-ons

7) July 2015 bias review

8) Sept. 2015 reduced number of items/extended testing time

9) Dec. 2015 Correlation study

10) May 2016 Correlation study

Test Title & Code (N ≥ 30)	Possible (1)	Scorable (2)	PBS <sup>(3)</sup> Correct	Year	First Attempt <sup>(4)</sup>		Best Attempt <sup>(5)</sup>		All Test Takers <sup>(6)</sup>	
					N	%	N			
Agriculture	100	80	44	14-15	42	90.5			52	90.4
				15-16	19	73.7	70	90.0	24	66.7
Biology <sup>(8,9)</sup>	100	80	53	14-15	78	43.6			163	45.4
	80	64	43	15-16	79	50.6	94	63.0	126	46.8
Business	100	80	52	14-15	41	73.2			89	70.8
				15-16	29	58.6	123	77.0	54	59.3
Chemistry <sup>(8,9)</sup>	100	80	48	14-15	N ≤ 30					
	80	64	41	15-16						
Earth Science	100	80	48	14-15	N < 30					
				15-16						
English	100	80	52	14-15	203	62.6			375	56.8
				15-16	167	64.7	529	73.0	268	65.3
General Science	100	80	48	14-15	N < 30					
				15-16						
Marketing	100	80	48	14-15	N < 30					
				15-16						
Mathematics <sup>(8,9)</sup>	100	80	54	14-15	146	21.9			259	22.0
	80	64	44	15-16	104	48.1	127	55.0	155	45.2

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Test Title & Code	Possible (1)	Scorable (2)	PBS <sup>(3)</sup> Correct	Year	First Attempt <sup>(4)</sup>		Best Attempt <sup>(5)</sup>		All Test Takers <sup>(6)</sup>	
					N	%	N			
Physics <sup>(8)</sup>	100	80	57	14-15	N < 30					
	80	64	46	15-16						
Social Science US History <sup>(9)</sup>	40	32	20	14-15	172	47.1			253	46.2
				15-16	166	51.8	334	67.0	215	49.3
Social Science World History <sup>(9)</sup>	40	32	20	14-15	156	51.9			235	48.9
				15-16	160	53.8	326	70.0	211	53.1
Social Science Economics	40	32	18	14-15	154	55.8			225	55.6
				15-16	155	58.7	318	77.0	193	57.5
Social Science Geography	40	32	20	14-15	143	65.7			214	65.9
				15-16	131	65.6	325	78.0	173	65.3
Social Science Political Science <sup>(9)</sup>	40	32	20	14-15	162	46.9			238	45.0
				15-16	152	47.4	318	63.0	200	46.0
Social Science Behavioral Science	40	32	18	14-15	144	62.5			218	61.0
				15-16	143	63.6	318	79.0	182	63.7
Speech & Theatre	100	80	51	14-15	16	75.0			51	74.5
				15-16	12	75.0	66	89.0	26	80.8
Unified Science Biology	40	32	19	14-15	N < 30					
				15-16						
Unified Science Chemistry <sup>(9)</sup>	40	32	19	14-15	18	33.3			29	34.5
				15-16	17	23.5	33	48.0	20	30.0
Unified Science Earth Science	40	32	21	14-15	N < 30					
				15-16						

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Test Title & Code	Possible (1)	Scorable (2)	PBS <sup>(3)</sup> Correct	Year	First Attempt <sup>(4)</sup>		Best Attempt <sup>(5)</sup>		All Test Takers <sup>(6)</sup>	
					N	%	N			
Unified Science Physics <sup>(9)</sup>	40	32	21	14-15	15	26.7			22	27.3
				15-16	17	23.5	27	41.0	19	26.3
Art	100	80	53	14-15	121	66.1			204	60.3
				15-16	81	80.2	260	83.0	127	72.4
World Language: Chinese (content & constructed response)	80	64	53	14-15	N ≤ 30					
		16	10	15-16						
Family & Consumer Sciences	100	80	53	14-15	33	57.6			86	77.9
				15-16	24	75.0	122	94.0	55	87.3
World Language: German (content & constructed response)	80	64	44	14-15	N < 30					
		16	12	15-16						
Health	100	80	54	14-15	41	80.5			173	77.5
				15-16	28	75.0	253	86.0	106	79.2
Library Media Specialist	100	80	59	14-15	8	87.5			160	74.4
				15-16	5	60.0	232	85.0	114	68.4
Music Instrumental & Vocal	100	80	48	14-15	209	79.4			272	73.5
				15-16	86	84.9	332	89.0	123	78.0
Physical Education	100	80	52	14-15	194	59.8			368	63.9
				15-16	134	59.7	470	84.0	235	66.0
World Language: Spanish (content & constructed response)	80	64	36	14-15	73	56.2			109	60.6
		16	12	15-16	44	65.9	146	70.0	68	57.4
Technology & Engineering	100	80	54	14-15	N < 30					
				15-16						

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Test Title & Code	Possible (1)	Scorable (2)	PBS <sup>(3)</sup> Correct	Year	First Attempt <sup>(4)</sup>		Best Attempt <sup>(5)</sup>		All Test Takers <sup>(6)</sup>	
					N	%	N			
Blind & Low Vision	100	80	54	14-15	N < 30					
				15-16						
Deaf & Hard of Hearing	100	80	53	14-15	24	91.7			28	92.9
				15-16	13	100.0	42	98.0	16	93.8
Early Childhood Special Education	100	80	56	14-15	48	72.9			225	77.3
				15-16	41	70.7	339	87.0	147	82.3
Mild/Moderate Cross-Categorical	100	80	54	14-15	310	78.1			764	78.4
				15-16	252	79.8	1065	89.0	430	81.4
Severely Developmentally Disabled	100	80	53	14-15	N < 30					
				15-16						
Counselor	100	80	56	14-15	NA				281	63.3
				15-16			390	79.0	196	66.3
Building Level Administrator <sup>(7,10)</sup> (content & constructed response)	80	64	42	14-15	NA				648	45.7
		16	12	15-16			750	58.0	351	43.3
Superintendent <sup>(10)</sup> (content & constructed response)	80	64	40	14-15	NA				179	55.9
		16	12	15-16			231	68.0	113	50.4
Professional Knowledge Middle School	100	80	49	14-15	45	97.8			156	97.4
				15-16	19	78.9	225	98.0	74	91.9
Professional Knowledge Secondary	100	80	51	14-15	74	59.5			156	71.2
				15-16	22	77.3	175	84.0	47	76.6

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<b>Missouri Department of Elementary and Secondary Education</b> <b>Missouri Educator Gateway Assessments (MEGA)</b> <b>List of Approved Assessments – Effective August 29, 2016</b> <b>June 14, 2016</b>	
<b>MEGA Objective #1 – Recruiting the Right People</b>	
Missouri Educator Profile (MEP)	Candidates are required to complete the MEP prior to and/or at entry into educator preparation programs for teachers, counselors, librarians, and building-level administrators.
Missouri General Education Assessment (MoGEA) <i>(Candidates must pass all MoGEA Subtests to be formally admitted to an educator preparation program. Candidates may mix successful completion of previous MoGEA Subtests with the 2015-2016 versions listed here. See the MoGEA website for details.)</i>	Candidates are required to pass all of the MoGEA Subtests prior to being formally admitted to an undergraduate educator preparation program. MoGEA: Reading Comprehension and Interpretation Subtest MoGEA: Writing Subtest MoGEA: Mathematics Subtest MoGEA: Science and Social Science Subtest
<b>MEGA Objective #2 – Assessing Content Knowledge</b>	
<b>Early Childhood (Grades: Birth to Grade 3) and Elementary Education (Grades: 1-6)</b>	
Early Childhood Education	Early Childhood Education
Elementary Education <i>(Candidates must pass all tests to be eligible for certification in Elementary Education.)</i>	Elementary Education Multi-Content : English Language Arts Subtest Elementary Education Multi-Content: Mathematics Subtest Elementary Education Multi-Content: Science Subtest Elementary Education Multi-Content: Social Studies Subtest
Mathematics Specialist Grades 1-6	Elementary Mathematics Specialist

<b>Missouri Content Assessments by Certification Areas – Continued</b>	
<b>Middle School Education (Grades 5-9)</b>	
Language Arts	Middle School Education: Language Arts
Mathematics	Middle School Education: Mathematics
Science	Middle School Education: Science
Social Studies	Middle School Education: Social Science
<b>Secondary Education (Grades 9 – 12)</b>	
Agriculture	Agriculture
Biology	Biology
Business	Business
Chemistry	Chemistry
Earth Science	Earth Science
English	English
General Science	General Science
Journalism	Journalism (This new assessment will be presented for Board approval September 2016.)
Marketing	Marketing
Mathematics	Mathematics
Physics	Physics
Social Science <i>(Candidates must pass all six subtests to be eligible for certification in Social Sciences.)</i>	Social Science Multi-Content: United States History Social Science Multi-Content: World History Social Science Multi-Content: Economics Social Science Multi-Content: Geography Social Science Multi-Content: Political Science Social Science Multi-Content: Behavioral Science
Speech & Theatre	Speech & Theatre
Technology & Engineering	Technology & Engineering

<b>Missouri Content Assessments by Certification Areas – Continued</b>	
Unified Science – Biology <i>(Candidates must pass the Biology Test and the three subtests to be eligible for certification in Unified Science Biology.)</i>	Biology plus the following assessments: Unified Science: Chemistry Unified Science: Earth Science Unified Science: Physics
Unified Science – Chemistry <i>(Candidates must pass the Chemistry Test and the three subtests to be eligible for certification in Unified Science Chemistry.)</i>	Chemistry plus the following assessments: Unified Science: Biology Unified Science: Earth Science Unified Science: Physics
Unified Science – Earth Science <i>(Candidates must pass the Earth Science Test and the three subtests to be eligible for certification in Unified Science Earth Science.)</i>	Earth Science plus the following assessments: Unified Science: Biology Unified Science: Chemistry Unified Science: Physics
Unified Science – Physics <i>(Candidates must pass the Physics Test and the three subtests to be eligible for certification in Unified Science Physics.)</i>	Physics plus the following assessments: Unified Science: Biology Unified Science: Chemistry Unified Science: Earth Science
<b>Grades K-12</b>	
Art	Art
Chinese (Mandarin)	World Languages: Chinese – Mandarin
Family & Consumer Sciences	Family & Consumer Sciences
French	World Languages: French
German	World Languages: German
Health	Health
Library Media Specialist	Missouri Educator Profile for School Librarians Library Media Specialist Missouri School Librarian Performance Assessments
Music: Instrumental & Vocal	Music: Instrumental and Vocal
Physical Education	Physical Education
Spanish	World Languages: Spanish

<b>Missouri Content Assessments by Certification Areas – Continued</b>	
<b>Special Education</b>	
Early Childhood Special Education	Early Childhood Special Education
Blind & Low Vision (Grades: B-12)	Blind & Low Vision
Deaf and Hard of Hearing (Grades: B-12)	Deaf & Hard of Hearing
Severely Developmentally Disabled (Grade: K-12)	Severely Developmentally Disabled
Mild-Moderate Cross-Categorical (Grades: K-12) <i>(Must pass #050 plus the four elementary subtests.)</i>	Mild-Moderate Cross-Categorical Special Education Elementary Education Multi-Content : English Language Arts Subtest Elementary Education Multi-Content: Mathematics Subtest Elementary Education Multi-Content: Science Subtest Elementary Education Multi-Content: Social Studies Subtest
Temporary Authorization Certification (TAC) or Certification Areas Without a Test: Candidates pursuing initial certification through TAC are required to pass the appropriate content area assessment(s) and the professional knowledge assessment.	
Middle School (Grades: 5-9)	Professional Knowledge: Middle School Appropriate Content Assessment(s) for Certification Area(s)
Secondary (Grades: 9-12)	Professional Knowledge: Secondary Appropriate Content Assessment(s) for Certification Area(s)
<b>MEGA Objective #3 – Assessing Candidate Performance</b>	
Missouri Pre-Service Teachers Assessment (MoPTA)	All candidates working toward initial certification as a teacher are required to pass the MoPTA during student teaching unless noted above.
<b>Advanced Certification Areas – Content and Performance Assessments</b>	
<b>Student Services</b>	
Counselor – (Grades: K-8) Counselor – (Grades: 7-12)	Missouri Educator Profile for School Counselors School Counselor Missouri School Counselor Performance Assessment
School Psychologist	School Psychologist Assessment

<b>School &amp; District Leadership</b>	
Building-Level Administrator Principal –(Grades: K-8) Principal – (Grades: 7-12) Career Education Director (Grades: 9-12) Special Education Administrator (Grades: K-12)	Missouri Educator Profile for School Leaders Building Level Administrator Missouri School Leader Performance Assessment
Superintendent (Grades: K-12)	Superintendent



**STATE BOARD OF EDUCATION**

**CONSIDERATION TO APPROVE  
THE MISSOURI QUALIFYING  
SCORES FOR THE  
MISSOURI CONTENT  
ASSESSMENTS**

June 14, 2016

Missouri Department of Elementary  
and Secondary Education



# Missouri Educator Gateway Assessments (MEGA)

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- **MEGA'S Three Objectives**
  - **Recruit the right people**
  - **Assess content knowledge**
    - **51 Certification Assessments**
    - **Increased Emphasis on Content**
  - **Assess performance**



## Goals – Missouri Content Assessments

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- **Based on Missouri’s needs**
- **Focused on state and national standards**
- **Reflect required subject knowledge**
- **Is accurate and valid**
- **Accurately assesses all test-takers**

# Involvement – Test Development Process

## Missouri Participation – PK-12, Arts & Sciences, Educator Preparation Programs

- **Bias Review Committee**
  - Reviews for sensitivity and fairness
  - Checks for bias
  - Reflects the diversity of the population
- **Content Advisory Committee**
  - Assesses appropriate content for significance and accuracy
  - Provides assessments free from bias
  - Determines job-relatedness and relevance
- **Marker Response Committee – Constructed Responses**
  - Reviews constructed response items
  - Identifies scores based upon quality of response

## Test Development Process

- **Conduct program planning**
- **Establish advisory committees**
- **Develop test framework**
- **Conduct test framework review**
- **Conduct content validation survey**
- **Develop assessment items**
- **Conduct item review conference**
- **Establish marker response**
- **Conduct item validation and standard settings**

## **Operational Results: Overview 2015-16**

- **Candidates tested August 31, 2015-March 13, 2016**
- **57 Certification Assessments**
  - **17,521 administered**
  - **40 content areas had  $N \geq 30$**
  - **Range of test-takers 6 to 2,306 for a given content area**

## Recommendations from MABEP & MACCE

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- Describe development of the content assessments
- Discuss adjustments made to any assessments
- Review results of test-takers
  - 2014-2015
  - 2015-2016
- Generate recommendations and rationale

## Recommendations – MABEP & MACCE

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- **MACCE – April 11, 2016**
  - **Recommendation: no changes to qualifying scores**
  - **Rationale: overall, scores are increasing**
- **MABEP – April 28, 2016**
  - **Recommendation: change Chemistry to -.5 SEM**
  - **Rationale - shortage of chemistry teachers**

## DESE Recommendations

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- **Missouri Qualifying Scores**
  - **No changes**
  - **Rationale for not changing chemistry**
  - **Continue to review the results annually.**

## Communication Plans

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- **State Board of Education materials**
- **Webinars, memos, & website**
- **Preparation programs**
  - **Candidates**
  - **Faculty members**
  - **Deans/Unit Leaders & Senior Level Administration**
- **Professional associations**