



Mississippi Academic Assessment Program (MAAP)

MATHEMATICS

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MISSISSIPPI DEPARTMENT OF EDUCATION

Carey M. Wright, Ed.D.

State Superintendent of Education

Paula Vanderford, Ph.D.

Chief Accountability Officer

Jackie Sampsell, Ed.D.

Student Assessment Director, Office of
Student Assessment

Libby Cook

MAAP Program Coordinator &
Mathematics Content Specialist, Office of
Student Assessment

Melissa Beck

Assessment Coordinator (K-3) &
Literacy Content Specialist, Office of
Student Assessment

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Mississippi Department of Education

359 North West Street

P. O. Box 771

Jackson, Mississippi 39205-0771

(601) 359-3513

www.mdek12.org

MAAP

Assessment Blueprint

ALGEBRA I

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
Number and Quantity (N)	N-RN (3) N-Q (1, 2, 3)*		5-9%
Algebra (A)	A-SSE (1*, 2, 3*) A-APR (1, 3) A-CED (1, 2, 3, 4)* A-REI (1, 3, 4, 5, 6, 10, 11*, 12)		46-55%
Functions (F)	F-IF (1, 2, 3, 4*, 5*, 6*, 7*, 8, 9) F-BF (1*, 3) F-LE (1, 2, 5)*		31-38%
Statistics and Probability (S)	S-ID (1, 2, 3, 5, 6, 7, 8, 9)*		9-12%
Operational Items	60	Total Points	65
Field Test Items	10	Total Testing Time	180 Minutes (3 Hours)
Total Items	70		

Note*: Modeling Standards

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 70% Multiple Choice Single Select (MCSS) items and the remaining 30% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.

Assessment Blueprint

MATHEMATICS GRADE 8

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
The Number System (NS)	8.NS (1, 2)		9-14%
Expressions and Equations (EE)	8.EE (1, 2, 3, 4, 5, 6, 7, 8)		26-34%
Functions (F)¹	8.F (1, 2, 3, 4, 5)		17-23%
Geometry (G)	8.G (1, 2, 3, 4, 5, 6, 7, 8, 9)		26-34%
Statistics and Probability (SP)	8.SP (1, 2, 3, 4)		9-14%
Operational Items	61	Total Points	65
Field Test Items	10	Total Testing Time	180 Minutes (3 Hours)
Total Items	71		

Note¹: Function notation is not taught in Grade 8.

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 75-80% Multiple Choice Single Select (MCSS) items and the remaining 20-25% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.

MAAP

Assessment Blueprint

MATHEMATICS GRADE 7

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
Ratios and Proportional Relationships (RP)	7.RP (1, 2, 3)		12-17%
The Number System (NS)	7.NS (1, 2, 3 ¹)		15-18%
Expressions and Equations (EE)	7.EE (1, 2, 3, 4)		17-23%
Geometry (G)	7.G (1, 2, 3, 4, 5, 6)		18-25%
Statistics and Probability (SP)	7.SP (1, 2, 3, 4, 5, 6, 7, 8)		22-31%
Operational Items	61	Total Points	65
Field Test Items	10	Total Testing Time	180 Minutes (3 Hours)
Total Items	71		

Note¹: Computations with rational numbers extend the rules for manipulating fractions to complex fractions.

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 75-80% Multiple Choice Single Select (MCSS) items and the remaining 20-25% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.

Assessment Blueprint

MATHEMATICS GRADE 6

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
Ratios and Proportional Relationships (RP)	6.RP (1, 2 ¹ , 3)		12-17%
The Number System (NS)	6.NS (1, 2, 3, 4, 5, 6, 7, 8, 9)		26-34%
Expressions and Equations (EE)	6.EE (1, 2, 3, 4, 5, 6, 7, 8, 9)		31-38%
Geometry (G)	6.G (1, 2, 3, 4)		9-14%
Statistics and Probability (SP)	6.SP (1, 2, 3, 4, 5)		11-14%
Operational Items	61	Total Points	65
Field Test Items	10	Total Testing Time	180 Minutes (3 Hours)
Total Items	71		

Note¹: Expectations for unit rates in this grade are limited to non-complex fractions.

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 75-80% Multiple Choice Single Select (MCSS) items and the remaining 20-25% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.

Assessment Blueprint

MATHEMATICS GRADE 5

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
Operations and Algebraic Thinking (OA)	5.OA (1, 2, 3)		13-17%
Number and Operations in Base Ten (NBT)	5.NBT (1, 2, 3, 4, 5, 6, 7)		25-33%
Number and Operations—Fractions (NF)	5.NF (1, 2, 3, 4, 5, 6, 7 ¹)		25-33%
Measurement and Data (MD)	5.MD (1, 2, 3, 4, 5)		13-17%
Geometry (G)	5.G (1, 2, 3, 4)		12-17%
Operational Items	49	Total Points	52
Field Test Items	9	Total Testing Time	180 Minutes (3 Hours)
Total Items	58		

Note¹: Division of a fraction by a fraction is not a requirement at this grade

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 75-80% Multiple Choice Single Select (MCSS) items and the remaining 20-25% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.

Assessment Blueprint

MATHEMATICS GRADE 4

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
Operations and Algebraic Thinking (OA)	4.OA (1, 2, 3, 4, 5)		17 -25%
Number and Operations in Base Ten (NBT) ¹	4.NBT (1, 2, 3, 4, 5, 6)		21-29%
Number and Operations—Fractions (NF) ²	4.NF (1, 2, 3, 4, 5, 6, 7)		21-29%
Measurement and Data (MD)	4.MD (1, 2, 3, 4, 5, 6, 7)		15 -23%
Geometry (G)	4.G (1, 2, 3)		6-12%
Operational Items	49	Total Points	52
Field Test Items	9	Total Testing Time	180 Minutes (3 Hours)
Total Items	58		

Note¹: Limited to whole numbers less than or equal to 1,000,000.

Note²: Limited to denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 75-80% Multiple Choice Single Select (MCSS) items and the remaining 20-25% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.

Assessment Blueprint MATHEMATICS GRADE 3

This blueprint describes the content and structure of an assessment and defines the ideal percentage of operational test items by reporting category for the Mississippi Academic Assessment Program (MAAP). **Starting with the 2021-2022 school year, the mathematics assessments will only have one (1) session.**

Reporting Category	Mississippi College- and Career-Readiness Standards Available for Assessment		Percentage of Points by Reporting Category
Operations and Algebraic Thinking (OA)	3.OA (1, 2, 3, 4, 5, 6, 7, 8 ¹ , 9)		37-46%
Number and Operations in Base Ten (NBT)	3.NBT (1, 2, 3)		12-17%
Number and Operations—Fractions (NF)²	3.NF (1, 2, 3)		13-19%
Measurement and Data (MD)	3.MD (1, 2, 3, 4, 5, 6, 7, 8)		21-29%
Geometry (G)	3.G (1, 2)		4-12%
Operational Items	49	Total Points	52
Field Test Items	9	Total Testing Time	180 Minutes (3 Hours)
Total Items	58		

Note¹: Limited to problems posed with whole numbers and having whole-number answers.

Note²: Limited to fractions with denominators 2, 3, 4, 6, and 8.

Operational Form Development Notes:

- The Depth of Knowledge (DOK) level of items across the operational test form will be tracked to have as much variety as possible. The goal is for 75% of the items on the form to be DOK level 2 and approximately 25% of the items on the form to be DOK level 1 and DOK level 3. However, we recognize that standard distribution, item types, and item statistics take priority when building the form.
- The goal is for the form to contain approximately 75-80% Multiple Choice Single Select (MCSS) items and the remaining 20-25% of the items will be Multiple Choice Multiple Select (MCMS), Match, Numeric Entry, Grid, and Composite Item Types.
- The operational form will be built to ensure that at least 75% of the standards in a reporting category will be assessed each year.