



Benchmark Modules: Mathematics Grade 4

Test Name	What This Test Measures	Form Name	Number of Items
Benchmark Module: Math Grade 4 – Measurement, Data and Geometry	This test measures a student's ability to solve problems involving measurement and conversion of measurements, represent and interpret data, understand concepts of angle and measure angles, draw and identify lines and angles, and classify shapes by properties of their lines and angles.	A	10
		B	10
		C	8
Benchmark Module: Math Grade 4 – Number and Operations Base 10	This test measures a student's ability to generalize place value understanding for multi-digit whole numbers and to use place value understanding and properties of operations to perform multi-digit arithmetic.	A	12
		B	12
		C	12
Benchmark Module: Math Grade 4 – Number and Operations Fractions	This test measures a student's ability to extend understanding of fraction equivalence and ordering, build fractions from unit fractions, understand decimal notation for fractions, and compare decimal fractions.	A	10
		B	10
		C	12
Benchmark Module: Math Grade 4 – Operations and Algebraic Thinking	This test measures a student's ability to use the four operations with whole numbers to solve problems, gain familiarity with factors and multiples, and generate and analyze patterns.	A	8
		B	8
		C	9

The table is designed to provide information about the content of each benchmark modular assessment **by grade and subject**. In the above table, you will find the name of the benchmark module, a brief description of the skills the module assesses, the names of each test form (e.g., A, B, C, etc.), and the number of test items on each form.

2018+ WY-TOPP Interim Assessment Mathematics Blueprint Upper Elementary – Grades 3-6



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Grade 3 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Operations & Algebraic Thinking	12-15	38-47%
Number and Op. - Fractions	6-8	19-25%
Measurement and Data	7-9	22-28%
Geometry	5-7	16-22%
Total	32	100%

Grade 4 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Operations & Algebraic Thinking	6-8	18-24%
Number and Operations - Base 10	6-8	18-24%
Number and Operations - Fractions	9-11	26-32%
Measurement and Data	4-6	12-18%
Geometry	4-6	12-18%
Total	34	100%

Grade 5 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Operations & Algebraic Thinking	6-7	18-21%
Number and Operations - Base 10	8-11	24-32%
Number and Operations - Fractions	8-11	24-32%
Measurement and Data	5-6	15-18%
Geometry	4-7	12-21%
Total	34	100%

Grade 6 Math Interim Blueprint	# of Items by Domain	% of Items by Domain
Ratios and Proportional Relationships	5-7	16-22%
The Number System	6-8	19-25%
Expressions and Equations	7-11	22-34%
Non-Calculator Total	23	72%
Geometry	4-6	13-19%
Statistics and Probability	4-5	13-16%
Calculator Total	9	28%

Note: Grade 6 is the only grade to have a non-calculator and a calculator section on the WY-TOPP Interim and the Summative Assessments. Items in the non-calculator section are those that are assessing the student's ability to fluently compute and/or apply and extend previous understandings of arithmetic in order to solve algebraic expressions. A DESMOS Calculator will be available on the Grades 6-10 WY-TOPP Assessments. Students will have a calculator available for all items in Grades 7-10.



DOK	Min. - Max.	%
1	7-11	15%-25%
2	23-29	50%-65%
3	7-11	15%-25%

DOK = Depth of Knowledge

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KEY

Domain - Reporting Category
Benchmarks & Standard

4th Grade Mathematics 2018+ WY-TOPP Summative Assessment Blueprint		Max # of Items Per Standard
Operations and Algebraic Thinking [8-10 Items; 18-22%]		
4.OA.1-3	A. Use the four operations with whole numbers to solve problems.	7
4.OA.4	B. Gain familiarity with factors and multiples.	4
Number and Operations - Base Ten [8-10 Items; 18-22%]		
4.NBT.1-3	D. Generalize place value understanding for multi-digit whole numbers.	7
4.NBT.4-6	E. Use place value understanding and properties of operations to perform multi-digit arithmetic.	5
Number and Operations - Fractions [13-14 Items; 29-31%]		
4.NF.1-2	F. Extend understanding of fraction equivalence and ordering.	6
4.NF.3-4	G. Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.	6
4.NF.5-7	H. Understand decimal notation for fractions, and compare decimal fractions.	9
Measurement and Data [8-10 Items; 18-22%]		
4.MD.1-3	I. Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.	6
4.MD.4	J. Represent and interpret data.	2
4.MD.5-7	K. Geometric measurement: understand concepts of angle and measure angles.	6
Geometry [6-8 Items; 13-18%]		
4.G.1-3	L. Draw and identify lines and angles, and classify shapes by properties of their lines and angles.	8
Total Items		45

WY-TOPP Modular Assessments - ELA

Benchmark Modules: ELA Grade 4

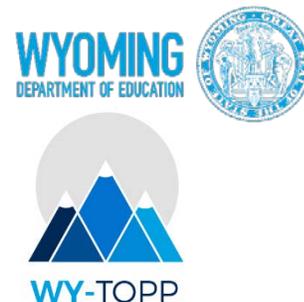
Test Name	What This Test Measures	Form Name	Number of Items
Benchmark Module: ELA Grade 4 –Reading Informational	This test measures a student’s ability to determine key ideas and details, examine craft and structure, and integrate knowledge and ideas in grade-appropriate informational passages.	A	15
		B	14
Benchmark Module: ELA Grade 4 –Reading Literature	This test measures a student’s ability to determine key ideas and details, examine craft and structure, and integrate knowledge and ideas in grade-appropriate literature passages.	A	23
		B	24
Benchmark Module: ELA Grade 4 –Editing*	This test measures a student’s ability to demonstrate command of the conventions of standard English in grade-appropriate writing.	A	8
		B	7
Benchmark Module: ELA Grade 4 –Listening	This test measures a student’s ability to integrate and evaluate information presented in diverse, grade-appropriate media and formats and evaluate a speaker’s point of view, reasoning, and use of evidence/rhetoric.	A	10
Benchmark Module: Writing Grade 4 –Informative	This test measures a student’s ability to write informative/explanatory texts to examine a topic and convey ideas and information clearly.	A	1 prompt
Benchmark Module: Writing Grade 4 –Opinion	This test measures a student’s ability to write opinion pieces on topics or texts, supporting a point of view with reasons and information.	A	1 prompt

***Note:** All editing task sets contain five errors. Each form contains two sets for a total of 10 errors. Paragraphs with multiple errors count as one item with 2 points for scoring purposes.

The table is designed to provide information about the content of each benchmark modular assessment **by grade and subject**. In the above table, you will find the name of the benchmark module, a brief description of the skills the module assesses, the names of each test form (e.g., A, B, C, etc.), and the number of test items on each form.



2018+ WY-TOPP Interim Assessment ELA Blueprints Elementary Grades



WRITING: Students in grades 3, 5, 7, & 9 will receive one writing prompt.

Grades 3 & 5 - Opinion or Informative/Explanatory

Grades 7 & 9 - Argumentative or Informative/Explanatory

**Note:* The Writing Assessment will be separate from the ELA Assessment. In the odd grades where writing is assessed, student results will not populate until both the ELA and Writing Assessments are completed.

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K Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	3-4	25-33%
Reading Informational	3-4	25-33%
Language/Vocabulary	2-3	17-25%
Reading Foundational	5-6	42-50%

1st Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	5-6	42-50%
Reading Informational	5-6	42-50%
Language/Vocabulary	2-3	17-25%
Reading Foundational	3-4	25-33%

3rd Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	8-10	28-42%
Reading Informational	8-10	28-42%
Language/Vocabulary	6-8	21-33%
Listening	2-4	7-17%

5th Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	8-10	28-43%
Reading Informational	7-10	24-43%
Language/Vocabulary	6-8	21-35%
Listening	2-4	7-17%

2nd Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	6-7	50-58%
Reading Informational	6-7	50-58%
Language/Vocabulary	2-3	17-25%
Reading Foundational	2-3	17-25%

4th Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	8-10	28-48%
Reading Informational	6-10	21-48%
Language/Vocabulary	6-8	21-38%
Listening	2-4	7-19%

6th Grade ELA Interim Blueprint	# of Items Per Strand	% of Items Per Strand
Reading Literature	8-10	29-43%
Reading Informational	8-10	29-43%
Language/Vocabulary	6-8	21-35%
Listening	2-4	7-17%

KEY

Strand - Reporting Category
Standard
Benchmark



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DOK	Min. - Max.
1	20%-30%
2	40%-60%
3	10%-20%
4	18%-21%

DOK = Depth of Knowledge

2018+ WY-TOPP Summative Assessment Blueprint 4th Grade ELA		% of Items Per Strand/ Standard
Reading Literature [17-19 Items]		38-42%
Key Ideas and Details [8-11 Items]		
<p>RL.1 Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.</p> <p>RL.2 Determine a theme of a story, drama, or poem from details in the text; summarize the text.</p> <p>RL.3 Describe in depth a character, setting, or event in a story or drama, drawing on specific details in the text (e.g., a character's thoughts, words, or actions).</p>		18-24%
Craft and Structure [6-9 Items]		
<p>RL.4 Determine the meaning of words and phrases as they are used in a text, including those that allude to significant characters found in mythology (e.g., Herculean).</p> <p>RL.5 Explain major differences between poems, drama, and prose, and refer to the structural elements of poems (e.g., verse, rhythm, meter) and drama (e.g., casts of characters, settings, descriptions, dialogue, stage directions) when writing or speaking about a text.</p> <p>RL.6 Compare and contrast the point of view from which different stories are narrated, including the difference between first- and third-person narrations.</p>		13-20%
Integration of Knowledge and Ideas [1-3 Items]		
<p>RL.7 Make connections between the text of a story or drama and a visual or oral presentation of the text, identifying where each version reflects specific descriptions and directions in the text.</p> <p>RL.9 Compare and contrast the treatment of similar themes and topics (e.g., opposition of good and evil) and patterns of events (e.g., the quest) in stories, myths, and traditional literature from different cultures.</p>		2-7%

Reading Informational [16-18 Items]	36-40%
Key Ideas and Details [7-10 Items]	
<p>RI.1 Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.</p> <p>RI.2 Determine the main idea of a text and explain how it is supported by key details; summarize the text.</p> <p>RI.3 Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.</p>	16-22%
Craft and Structure [6-9 Items]	
<p>RI.4 Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.</p> <p>RI.5 Describe the overall structure (e.g., chronology, comparison, cause/effect, problem/solution) of events, ideas, concepts, or information in a text or part of a text.</p> <p>RI.6 Compare and contrast a firsthand and secondhand account of the same event or topic; describe the differences in focus and the information provided.</p>	13-20%
Integration of Knowledge and Ideas [1-2 Items]	
<p>RI.7 Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages) and explain how the information contributes to an understanding of the text in which it appears.</p> <p>RI.8 Explain how an author uses reasons and evidence to support particular points in a text.</p> <p>RI.9 Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.</p>	2-4%
Language/Vocab. Acquisition and Use [6-8 Items] *May be attached to RL and RI reading stims	22-27%
<p>L.1 Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.</p> <p>L.2 Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.</p>	22%
<p>L.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.</p> <p>L.5 Demonstrate understanding of figurative language, word relationships, and nuances in word meanings.</p>	0-5%
Listening [0-3 Items] *May be attached to RL and RI reading stims	0-6%
<p>SL.2 Paraphrase portions of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.</p> <p>SL.3 Identify the reasons and evidence a speaker provides to support particular points.</p>	0-6%
	100%

*“Stim” is short for stimulus/stimuli, referring to the passage(s) that are associated with items (questions).

Writing is not assessed in Grade 4 edu.wyoming.gov/blueprints



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2018-2020 WY-TOPP Summative Assessment Blueprint 4th Grade Science

<u>Skills:</u> I.1 Observe and Question, I.2 Design and Conduct a Scientific Investigation, I.3 Organize and Represent Data, I.4 Draw Conclusions and Make Connections	% of Items Per Standard (Reporting Category)
Concepts & Processes (40 items Total)	
Life Science [12 Items]	30%
<p>4.1.1 Characteristics of Organisms: Students describe observable characteristics of living things, including structures that serve specific functions and everyday behaviors. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.2 Life Cycles of Organisms: Students sequence life cycles of living things, and recognize that plants and animals resemble their parents. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.3 Organisms and Their Environments: Students show connections between living things, their basic needs, and the environments. (4 items; I.1, I.2, I.3, I.4)</p>	
Earth & Space Science (12 items)	30%
<p>4.1.4 Properties of Earth Materials: Students investigate water, air, rocks, and soils to compare basic properties of earth materials. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.5 Objects in the Sky: Students describe observable objects in the sky and their patterns of movement. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.6 Changes in Earth and Sky: Students describe observable changes in earth and sky, including rapid and gradual changes to the earth's surface, and daily and seasonal changes in the weather. (4 items; I.1, I.2, I.3, I.4)</p>	

Physical Science (16 items)		40%
<p>4.1.7 Properties of Objects: Students classify objects by properties that can be observed, measured, and recorded, including color, shape, size, weight, volume, texture, and temperature. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.8 Changes in States of Matter: Students demonstrate that the processes of heating and cooling can change matter from one state to another. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.9 Physical Phenomena: Students investigate physical phenomena commonly encountered in daily life, including light, heat, electricity, sound, and magnetism. (4 items; I.1, I.2, I.3, I.4)</p> <p>4.1.10 Position and Motion of Objects: Students demonstrate that pushing and pulling can change the position and motion of objects. (4 items; I.1, I.2, I.3, I.4)</p>		
Science as Inquiry		
<p>4.2.2 Students use the inquiry process to conduct simple scientific investigations: 1) Collect and organize data; 2) Use data to construct simple graphs, charts, diagrams, and/or model; 3) Draw conclusions and accurately communicate results, making connections to daily life; 4) Pose or identify questions and make predictions; and 5) Conduct investigations to answer questions and check predictions</p> <p>4.2.3 Students identify and use appropriate scientific equipment.</p> <p>4.2.4 Students properly use safety equipment and recognize hazards and safety symbols while practicing standard safety procedures.</p>		Assessed with Concepts & Processes