

### ILEARN Blueprints Grade 3 Mathematics (Beginning 2018–19 School Year)

Blueprints serve as a foundational resource in the assessment development process. Blueprints specify the proportionality of how ILEARN assesses the Indiana Academic Standards, including the relative range of each standard on the assessment as represented in the minimum and maximum number of items to be administered to each student.

The Department recruited Indiana educators to inform the development of the blueprint in February 2018. These educators represented different regions of the state, diverse student populations, and content and accessibility expertise. Panels of subject area teachers convened at each grade level, recommended the priorities and associated item ranges noted within the blueprints. Educators also considered the vertical articulation of the content across grades 3 through 8. For Mathematics, educators placed an emphasis on number sense and computation in grades 3–5, and transitioned to more emphasis on algebraic thinking and analysis in grades 6–8.

ILEARN Mathematics will be a computer adaptive assessment, typically referred to as CAT. The blueprints specify the number of operational items students will be administered overall, as well as by reporting category and standard. The CAT item selection algorithm is designed to select items necessary to meet all test blueprint specifications, while also varying item difficulty to adapt to each student's individual ability.

The draft blueprint, noted on the subsequent pages as "ILEARN DRAFT," will be used to run test simulations with the licensed item pools this fall to define the anticipated interactions for students assessed with ILEARN next spring. As such, these blueprints may change slightly through that process. The Department will release final blueprints by October 1, 2018. However, the Department realizes the urgency for corporation and school planning, and created these drafts as an intermediate step until the test simulation process is complete.

### Overview

The columns of the draft blueprints highlight key features of test design including: reporting categories, Indiana Academic Standards, standard allocations (number of minimum and maximum items per standard), reporting category allocations and the total operational items possible.

**Reporting Category:** 

A broad domain or segment of the subject area identified by educators as meaningful sets of

	interrelated standards. Reporting categories are broad to allow for individual level reporting of student performance. In many cases, the reporting category combines two or more domains that are considered related, as indicated by educators. The reporting category column also includes the overall percentage of the assessment characterized by the specific category.
Standard:	The Indiana Academic Standard category code is noted. The full language of the standard can be accessed at <u>https://www.doe.in.gov/standards</u> .
Standard Item Range:	The allocation defines the item range possible for that standard. For adaptive assessments in ELA and Mathematics, a standard with a range that starts at zero indicates that not every student will be assessed on the standard. However, the standard will be assessed at the aggregate level. For fixed form assessments, a standard with a range that starts at zero indicates that not every standard will be assessed each year.
Standard Percentage of Test:	The allocation defines the percentage of the test for each standard and corresponding reporting category.
Total Number of Items Possible:	The range for the total number of items possible on the assessment each year. Note: Field test items do not contribute to the operational points possible noted.

#### Additional Information

Each student will receive one Performance Task set as part of his or her test. A Performance Task is designed to provide students with an opportunity to demonstrate their ability to apply their knowledge and higher-order thinking skills to explore and analyze a complex, real-world scenario. This Performance Task set will contain several items aligned to the Indiana Academic Content and Process Standards. During a meeting in April 2018, Indiana educators from across the state met to confirm the Indiana Academic Standard alignment. For Mathematics, these Performance Tasks align to content and process standards.

Further, each student will respond to three hand-scored items throughout the assessment. Indiana educators across the state are invited to participate in the scoring of these items.

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## (Beginning 2018–19 School Year)

Deperting		Standard Item Range		Standard % of		Reporting
Reporting	Standard			Test		Category Item
Category		Min	Max	Min	Max	Range
	3.AT.1	1	3	2	6	
	3.AT.2	0	2	0	4	
Algebraic	3.AT.3	0	2	0	4	
Thinking and	3.AT.4	0	2	0	4	9–11
Data Analysis	3.AT.5	0	2	0	4	9-11
(19–23%)	3.AT.6	0	2	0	4	
	3.DA.1	0	2	0	4	
	3.DA.2	0	2	0	4	
	3.C.1	1	3	2	6	
	3.C.2	1	3	2	6	
Computation	3.C.3	1	3	2	6	11–13
(23–27%)	3.C.4	0	2	0	4	11-13
	3.C.5	0	2	0	4	
	3.C.6	0	2	0	4	
	3.G.1	0	1	0	2	
	3.G.2	1	2	2	4	
	3.G.3	1	2	2	4	
	3.G.4	1	2	2	4	
Geometry and	3.M.1	0	2	0	4	
Measurement	3.M.2	1	2	2	4	9–11
(19–23%)	3.M.3	1	2	2	4	
	3.M.4	1	2	2	4	
	3.M.5	1	2	2	4	
	3.M.6	0	2	0	4	
	3.M.7	0	2	0	4	

	3.NS.1	1	3	2	6	
	3.NS.2	0	2	0	4	
	3.NS.3	1	3	2	6	
Number	3.NS.4	0	2	0	4	
Sense	3.NS.5	0	2	0	4	11–13
(23–27%)	3.NS.6	0	2	0	4	
	3.NS.7	1	3	2	6	
	3.NS.8	0	2	0	4	
	3.NS.9	0	2	0	4	

### Aggregate Reporting Only

Educators identified the following standards for inclusion on the assessment, but will be aggregated to the overall Scale Score for each student, and not reported as a separate reporting category.

	Standard	Standard Item Range		Standard % of Test		Reporting Category Item	
		Min	Max	Min	Мах	Range	
Process Standards (8–13%)	PS.1	0	2	0	4		
	PS.2	0	2	0	4	4–6	
	PS.3	0	2	0	4		
	PS.4	0	2	0	4		
	PS.5	0	2	0	4		
	PS.6	0	2	0	4		
	PS.7	0	2	0	4		
	PS.8	0	2	0	4		
Total Operational Items: 48							

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