ISTAR 2015-16
Instructional and Assessment Guidance

Opportunity to Learn

From an assessment perspective, preparing students necessitates a focus on "Opportunity to Learn." Opportunity to Learn (OTL) refers to equitable conditions or circumstances within the school or classroom that promote learning for all students. OTL includes curricula, learning materials and instructional experiences. In short, OTL supports student success by ensuring student access to both content and instruction.

Opportunity to Learn is both a moral imperative and an ethical responsibility on the part of educators. Indiana teachers have a two-fold obligation with regard to OTL. First, teachers must provide students with OTL for Indiana Academic Standards that are assessed in the classroom and on ISTAR. Second, and more importantly, teachers must provide OTL in terms of the content that students must learn in preparation for the next level of learning.

Prioritizing Instruction

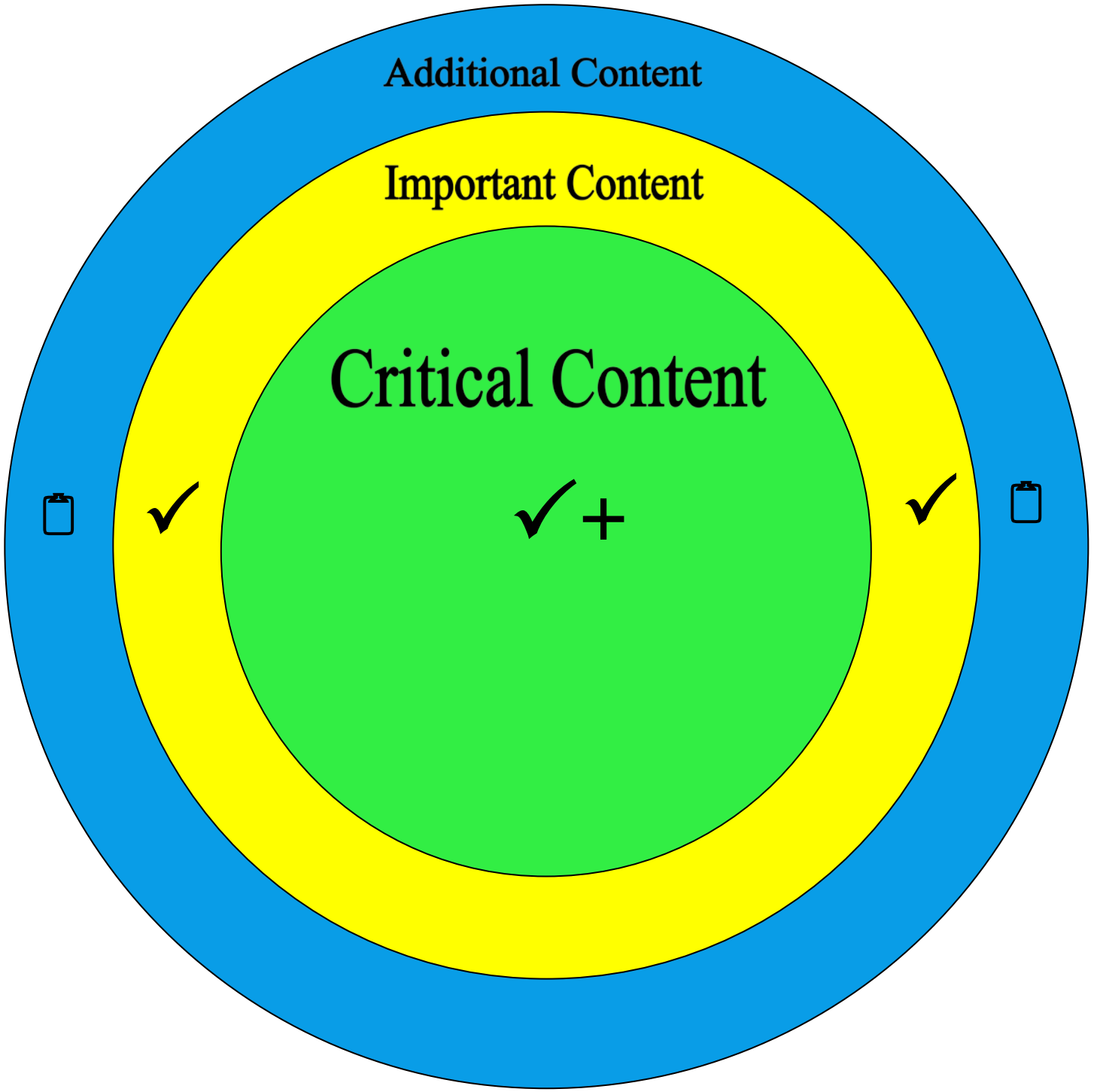
In an effort to empower teachers and focus on instructional priorities, the Office of Student Assessment has created Instructional and Assessment Guidance ("Guidance") documents for grades 3-8 and 10. The *Content Priority* of each Standard is delineated in the Guidance as one of three designations:

1) Critical – identified as "✓+"
2) Important – identified as "✓"
3) Additional – identified as "📋"

The Guidance documents are designed to assist teachers in planning and prioritizing instructional time to ensure student success.

A Final Note

The Guidance documents, as well as the Standards themselves, are not meant to be used as a "checklist." Rather, when teachers take into consideration the instructional priorities and deliver rich, meaningful lessons, the Standards come to life in the classroom.


Additional Content
Important Content
Critical Content

Instructional and Assessment Guidance
ISTAR: Mathematics – Grade 3
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Strand 1 Number Sense		Strand 2 Computation		Strand 3 Algebraic Thinking		Strand 4 Geometry		Strand 5 Measurement		Strand 6 Data Analysis		Strand 7 Mathematical Process	
3.NS.1	✓+	3.C.1	✓+	3.AT.1	✓+	3.G.1	✓+	3.M.1	✓+	3.DA.1	✓	PS.1	✓
3.NS.2	✓+	3.C.2	✓+	3.AT.2	🗒	3.G.2	✓	3.M.2	🗒	3.DA.2	🗒	PS.2	✓
3.NS.3	✓+	3.C.3	✓	3.AT.3	✓	3.G.3	✓	3.M.3	✓+			PS.3	✓
3.NS.4	✓	3.C.4	🗒	3.AT.4	🗒	3.G.4	🗒	3.M.4	✓+			PS.4	✓
3.NS.5	🗒	3.C.5	🗒	3.AT.5	🗒			3.M.5	🗒			PS.5	✓
3.NS.6	✓+	3.C.6	✓	3.AT.6	🗒			3.M.6	🗒			PS.6	✓
3.NS.7	✓							3.M.7	✓+			PS.7	✓
3.NS.8	🗒											PS.8	✓
3.NS.9	✓												

The Mathematical Process Standards should be taught on a regular basis in connection with the content standards.

Instructional and Assessment Guidance
ISTAR: Mathematics – Grade 4
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Strand 1 Number Sense		Strand 2 Computation		Strand 3 Algebraic Thinking		Strand 4 Geometry		Strand 5 Measurement		Strand 6 Data Analysis		Strand 7 Mathematical Process	
4.NS.1	✓+	4.C.1	✓+	4.AT.1	✓+	4.G.1	✓	4.M.1	✓	4.DA.1	✓	PS.1	✓
4.NS.2	✓+	4.C.2	✓+	4.AT.2	🗒	4.G.2	✓	4.M.2	✓+	4.DA.2	🗒	PS.2	✓
4.NS.3	✓+	4.C.3	✓+	4.AT.3	🗒	4.G.3	🗒	4.M.3	✓+	4.DA.3	✓+	PS.3	✓
4.NS.4	🗒	4.C.4	✓+	4.AT.4	✓	4.G.4	🗒	4.M.4	✓			PS.4	✓
4.NS.5	✓	4.C.5	🗒	4.AT.5	✓	4.G.5	✓+	4.M.5	✓			PS.5	✓
4.NS.6	🗒	4.C.6	🗒	4.AT.6	🗒			4.M.6	🗒			PS.6	✓
4.NS.7	🗒	4.C.7	🗒									PS.7	✓
4.NS.8	✓+											PS.8	✓
4.NS.9	✓												

The Mathematical Process Standards should be taught on a regular basis in connection with the content standards.

Instructional and Assessment Guidance
ISTAR: Mathematics – Grade 5
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Strand 1 Number Sense		Strand 2 Computation		Strand 3 Algebraic Thinking		Strand 4 Geometry		Strand 5 Measurement		Strand 6 Data Analysis		Strand 7 Mathematical Process	
5.NS.1	✓+	5.C.1	✓+	5.AT.1	✓+	5.G.1	✓	5.M.1	✓+	5.DS.1	✓+	PS.1	✓
5.NS.2	✓	5.C.2	✓+	5.AT.2	✓	5.G.2	✓	5.M.2	✓	5.DS.2	✓	PS.2	✓
5.NS.3	✓	5.C.3	✓	5.AT.3	🗒			5.M.3	🗒			PS.3	✓
5.NS.4	🗒	5.C.4	🗒	5.AT.4	🗒			5.M.4	🗒			PS.4	✓
5.NS.5	✓+	5.C.5	🗒	5.AT.5	✓+			5.M.5	🗒			PS.5	✓
5.NS.6	✓	5.C.6	🗒	5.AT.6	🗒			5.M.6	🗒			PS.6	✓
		5.C.7	🗒	5.AT.7	🗒							PS.7	✓
		5.C.8	✓+	5.AT.8	🗒							PS.8	✓
		5.C.9	🗒										

The Mathematical Process Standards should be taught on a regular basis in connection with the content standards.

Instructional and Assessment Guidance
ISTAR: Mathematics – Grade 6
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Strand 1 Number Sense		Strand 2 Computation		Strand 3 Algebra & Functions		Strand 4 Geometry & Measurement		Strand 5 Data Analysis & Statistics		Strand 6 Mathematical Process	
6.NS.1	✓	6.C.1	✓+	6.AF.1	✓	6.GM.1	✓+	6.DS.1	✓	PS.1	✓
6.NS.2	✓	6.C.2	✓	6.AF.2	✓	6.GM.2	🗒	6.DS.2	✓	PS.2	✓
6.NS.3	✓+	6.C.3	✓	6.AF.3	✓	6.GM.3	✓+	6.DS.3	✓+	PS.3	✓
6.NS.4	🗒	6.C.4	✓	6.AF.4	✓	6.GM.4	🗒	6.DS.4	✓+	PS.4	✓
6.NS.5	✓+	6.C.5	✓	6.AF.5	✓	6.GM.5	✓			PS.5	✓
6.NS.6	🗒	6.C.6	✓	6.AF.6	✓	6.GM.6	🗒			PS.6	✓
6.NS.7	✓			6.AF.7	✓					PS.7	✓
6.NS.8	✓			6.AF.8	🗒					PS.8	✓
6.NS.9	✓+			6.AF.9	🗒						
6.NS.10	✓+			6.AF.10	🗒						

The Mathematical Process Standards should be taught on a regular basis in connection with the content standards.

Instructional and Assessment Guidance
ISTAR Mathematics – Grade 7
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Strand 1 Number Sense		Strand 2 Computation		Strand 3 Algebra & Functions		Strand 4 Geometry & Measurement		Strand 5 Data Analysis, Stats., & Prob.		Strand 6 Mathematical Process	
7.NS.1	🗒	7.C.1	✓+	7.AF.1	✓	7.GM.1	✓+	7.DSP.1	🗒	PS.1	✓
7.NS.2	✓	7.C.2	✓	7.AF.2	✓+	7.GM.2	🗒	7.DSP.2	✓	PS.2	✓
7.NS.3	✓	7.C.3	✓	7.AF.3	✓	7.GM.3	🗒	7.DSP.3	🗒	PS.3	✓
		7.C.4	✓	7.AF.4	🗒	7.GM.4	✓+	7.DSP.4	✓	PS.4	✓
		7.C.5	✓	7.AF.5	✓	7.GM.5	🗒	7.DSP.5	✓	PS.5	✓
		7.C.6	✓+	7.AF.6	✓	7.GM.6	✓	7.DSP.6	✓+	PS.6	✓
		7.C.7	🗒	7.AF.7	🗒	7.GM.7	🗒	7.DSP.7	🗒	PS.7	✓
		7.C.8	✓+	7.AF.8	🗒					PS.8	✓
				7.AF.9	🗒						

The Mathematical Process Standards should be taught on a regular basis in connection with the content standards.

Instructional and Assessment Guidance
ISTAR Mathematics – Grade 8
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Strand 1 Number Sense		Strand 2 Computation		Strand 3 Algebra & Functions		Strand 4 Geometry & Measurement		Strand 5 Data Analysis, Stats., & Prob.		Strand 6 Mathematical Process	
8.NS.1	✓	8.C.1	✓+	8.AF.1	✓+	8.GM.1	✓	8.DSP.1	✓+	PS.1	✓
8.NS.2	✓+	8.C.2	🗒	8.AF.2	🗒	8.GM.2	✓	8.DSP.2	✓	PS.2	✓
8.NS.3	✓			8.AF.3	✓	8.GM.3	✓+	8.DSP.3	✓	PS.3	✓
8.NS.4	✓			8.AF.4	✓+	8.GM.4	🗒	8.DSP.4	✓	PS.4	✓
				8.AF.5	✓	8.GM.5	✓	8.DSP.5	🗒	PS.5	✓
				8.AF.6	✓	8.GM.6	🗒	8.DSP.6	🗒	PS.6	✓
				8.AF.7	✓	8.GM.7	🗒			PS.7	✓
				8.AF.8	✓+	8.GM.8	✓			PS.8	✓
						8.GM.9	🗒				

The Mathematical Process Standards should be taught on a regular basis in connection with the content standards.

Instructional and Assessment Guidance
ISTAR: Mathematics – Grade 10
2015-16

Symbol	Content Priority	Possible ISTAR Test Questions
✓+	Critical	Yes
✓	Important	Yes
🗒	Additional	No

Watch for additional details regarding content assessed during each of the three ISTAR test windows coming soon!

Number Sense, Expressions, and Computation		Data Analysis, Statistics, and Probability		Linear Equations, Inequalities, and Functions		Systems of Equations and Inequalities		Quadratic & Exponential Equations and Functions		Mathematical Process	
AI.RNE.1	🗒	AI.DS.1	🗒	AI.F.1	✓	AI.SEI.1	✓+	AI.QE.1	🗒	MP1	✓
AI.RNE.2	✓	AI.DS.2	✓	AI.F.2	🗒	AI.SEI.2	🗒	AI.QE.2	🗒	MP2	✓
AI.RNE.3	✓	AI.DS.3	✓	AI.F.3	🗒	AI.SEI.3	✓	AI.QE.3	✓	MP3	✓
AI.RNE.4	✓	AI.DS.4	🗒	AI.F.4	🗒	AI.SEI.4	🗒	AI.QE.4	🗒	MP4	✓
AI.RNE.5	🗒	AI.DS.5	✓+	AI.L.1	✓+			AI.QE.5	🗒	MP5	✓
AI.RNE.6	✓	AI.DS.6	🗒	AI.L.2	✓			AI.QE.6	✓	MP6	✓
				AI.L.3	✓			AI.QE.7	✓	MP7	✓
				AI.L.4	✓					MP8	✓
				AI.L.5	✓						
				AI.L.6	🗒						
				AI.L.7	🗒						
				AI.L.8	✓						
				AI.L.9	🗒						
				AI.L.10	🗒						
				AI.L.11	✓+						