Grade 5			
Domain	**Number of PEs in Grade 5**	**Relative percent of PEs in Grade 5**	**Grade 5 Blueprint percent range of points by content area**
Earth and Space	5	38%	30%-46%
Life Science	2	15%	10%-28%
Physical Science	6	46%	38%-54%
Engineering & Technology Standards	**3***	15%	0%-15%
Total	13		100%

*ETS items are possible, but not required in the blueprint for domain coverage. All PEs are included across 2 years of forms

Grade 5 ITA Test Design						
	Integrated Item Cluster (IIC)	**Regular Item Clusters (RICs)**		**Standalones**	**Matrix Field Test slots**	**Operational Totals**
	IIC 1	RIC 1	RIC 2	Items	8 forms	
Performance Expectations (PEs)	2	2	2	Up to 10		Up to 16
Items	6	5	5	10	6 or 8	26

Notes:
All items are aligned to at least two of the three dimensions associated with a specific Performance Expectation (PE).
Due to the test design, a maximum of 16 PEs can be included on a given test form. (2 per IIC, 2 per RIC x 2, 10 SAIs)
All PEs are included across 2 years of forms
Integrative Item Clusters (IICs) are item clusters that rely heavily on stimulus information and maintain a storyline throughout a set of items, including and extended response item.
Regular Item Clusters (RICs) are item clusters that include stimulus information and a set of independent items, which may include a constructed response item.
Standalone Items consist of multiple choice, multiple select, two part items, and technology enhanced items.

Grade 8

Domain	Number of PEs in Grade 8	Relative percent of PEs in Grade 8	Grade 8 Blueprint percent range of points by content area
Earth and Space Science	8	35%	27%-43%
Life Science	7	30%	20%-35%
Physical Science	8	35%	27%-43%
Engineering & Technology Standards	**4***	13%	0%-15%
Total	23		100%

*ETS items are possible, but not required in the blueprint for domain coverage. All PEs are included across 2 years of forms

Grade 8 ITA Test Design							
	Integrated Item Cluster (IIC)	Regular Item Clusters (RICs)			Standalones	Matrix Field Test slots	Operational Totals
	IIC 1	RIC 1	RIC 2	RIC 3	Items	8 forms	
Performance Expectations (PEs)	2	2	2	2	Up to 14		Up to 22
Items	6	5	5	5	14	6 or 8	35

Notes:
All items are aligned to at least two of the three dimensions associated with a specific Performance Expectation (PE).
Due to the test design, a maximum of 22 PEs can be included on a given test form. (2 per IIC, 2 per RIC x 3, 14 SAIs)
All PEs are included across 2 years of forms
Integrative Item Clusters (IICs) are item clusters that rely heavily on stimulus information and maintain a storyline throughout a set of items, including and extended response item.
Regular Item Clusters (RICs) are item clusters that include stimulus information and a set of independent items, which may include a constructed response item.
Standalone Items consist of multiple choice, multiple select, two part items, and technology enhanced items.

Biology

Domain/Topic	Number of PEs in Biology	Relative percent of PEs in Biology	Biology Blueprint percent range of points by content area
Earth and Space Science	2	7%	7%-15%
Life Science (LS1)	7	24%	16%-32%
Life Science (LS2)	8	28%	20%-36%
Life Science (LS3)	3	10%	5%-18%
Life Science (LS4)	6	21%	13%-29%
Physical Science	3	10%	5%-18%
Engineering & Technology Standards	**3***	10%	0%-10%
Total	29		100%

*ETS items are possible, but not required in the blueprint for domain coverage. All PEs are included across 2 years of forms

Biology ITA Test Design

	Integrated Item Cluster (IIC)	Regular Item Clusters (RICs)			Standalones	Matrix Field Test slots	Operational Totals
	IIC 1	RIC 1	RIC 2	RIC 3	Items	8 forms	
PEs	2	2	2	2	Up to 14		Up to 22
Items	6	5	5	5	14	6 or 8	35

Notes:
All items are aligned to at least two of the three dimensions associated with a specific Performance Expectation (PE).
Due to the test design, a maximum of 22 PEs can be included on a given test form. (2 per IIC, 2 per RIC x 3, 14 SAIs)
All PEs are included across 2 years of forms
Integrative Item Clusters (IICs) are item clusters that rely heavily on stimulus information and maintain a storyline throughout a set of items, including and extended response item.
Regular Item Clusters (RICs) are item clusters that include stimulus information and a set of independent items, which may include a constructed response item.
Standalone Items consist of multiple choice, multiple select, two part items, and technology enhanced items.