

## Science Standards Public Portal Feedback Summary

On November 10, 2016, the science standards committee voted to release a draft of the proposed updated science standards for public review. The public portal was open December 1, 2016 through January 6, 2017. The following summary includes all public comment collected via the online portal. The feedback received via email to [LouisianaStandards@la.gov](mailto:LouisianaStandards@la.gov) is included in the raw data. Click [here](#) to see the complete set of raw data.

### **Overview of the Standards Process**

Louisiana state law (R.S. 17:24.4) requires the Board of Elementary and Secondary Education (BESE) to adopt academic content standards, which are defined in the law as statements that define what a student should know or be able to accomplish at the end of a specific time period, grade level or at the completion of a course. The law sets forth an expectation that standards be rigorous and that they represent the knowledge and skills needed for students to successfully transition to postsecondary education and the workplace, as determined by content experts, elementary and secondary educators and school leaders, postsecondary education leaders, and business and industry leaders. BESE Bulletin 741, §2301 states, “The Louisiana content standards shall be subject to review and revision to maintain rigor and high expectations for teaching and learning.”

In July 2016, BESE solicited nominations statewide from several education associations, local school systems, post-secondary institutions, and key stakeholder organizations representing parents and business and industry leaders. From these nominations, the board assembled a diverse group of 86 individuals representing every sector mentioned in the law as well as every geographic region in the state. Three groups were formed: a science standards committee (40 members), high school workgroup (28 members), and K-8 workgroup (35 members). Some representatives served on both the committee and workgroups.

In August 2016, the committee charged the workgroups with developing recommendations for updated Louisiana science standards by Tuesday, November 8, 2016, to be reviewed prior to a public comment period. These included standards for kindergarten through grade 8, biology, chemistry, physics, earth and space science, and environmental science.

Prior to releasing the draft for public review, members of the workgroups participated in ten meetings and logged over 4,000 combined hours to draft the first version of the Louisiana Student Standards for Science. Detailed information on the standards process is provided on the Louisiana Department of Education (LDOE) [Student Standards Review](#) web page.

The [feedback provided](#) and summarized here will be used by the committee members to complete their recommendations before submitting a final version of the proposed standards for BESE's consideration in March 2017.

This summary includes the following components:

### **Overall Summaries**

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[Standards with Highest Feedback](#)

### **Grade-level Specific Summaries**

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[High School Earth and Space Science Breakdown by Standard](#)

[High School Environmental Science Summary](#)

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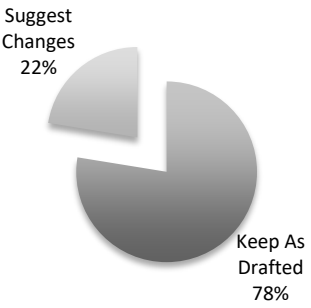
[Next Steps](#)

## User Statistics

Users	1946
Users with Data (logged in)	1459
Users with Feedback	375
Total Pieces of Feedback	10,272

<b>User Details</b>	
Educator	1149
K-12 District or School Administrator	118
Parent/Guardian	75
Other	54
Institution or Higher Education Faculty	39
Member of a Louisiana organization that focuses on or is interested in K-12 education	13
Student	11

## Feedback Summary

Total Reviews: 10,272													
Keep Standard As Drafted	7,952	K-12 Administrator	266	 <p>Suggest Changes 22%</p> <p>Keep As Drafted 78%</p>									
		Institution or Higher Education Faculty	855										
		Other Educator (not administrator or higher education)	5,598										
		Member of Organization	159										
		Parent/Guardian	93										
		Student	1										
		Other	980										
Suggest Changes to Standard	2,320	K-12 Administrator	179	<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>385</td> </tr> <tr> <td>Move to a Different Level</td> <td>1308</td> </tr> <tr> <td>Rewrite</td> <td>627</td> </tr> </tbody> </table>	Change Suggestions		Remove	385	Move to a Different Level	1308	Rewrite	627	
		Change Suggestions											
		Remove	385										
		Move to a Different Level	1308										
		Rewrite	627										
		Institution or Higher Education Faculty	90										
		Other Educator (not administrator or higher education)	1,752										
Member of Organization	72												
Parent/Guardian	106												
Student													
Other	121												

## Summary by Grade/Course

Grade/Course	Count of Feedback	Count of Keep As Drafted	Percent of Keep As Drafted	Count of Suggest Changes	Percent of Suggest Changes
Kindergarten	505	420	83%	85	17%
1 <sup>st</sup> grade	350	296	85%	54	15%
2 <sup>nd</sup> grade	627	567	90%	60	10%
3 <sup>rd</sup> grade	642	535	83%	107	17%
4 <sup>th</sup> grade	930	777	84%	153	16%
5 <sup>th</sup> grade	675	604	89%	71	11%
6 <sup>th</sup> grade	1,038	702	68%	336	32%
7 <sup>th</sup> grade	1,336	713	53%	623	47%
8 <sup>th</sup> grade	1,111	725	65%	386	35%
HS Life Science	1,374	1189	87%	185	13%
HS Chemistry	625	530	85%	95	15%
HS Physics	293	190	65%	103	35%
HS Earth and Space Science	290	271	93%	19	7%
HS Environmental Science	476	433	91%	43	9%

## Standards with Highest Feedback

Standard	Descriptor	Grade/ Course	Count of Feedback	Count of Keep as Drafted	Percent of Keep as Drafted	Count of Suggest Changes	Percent of Suggest Changes
HS-LS1-1.PE	Construct an explanation based on evidence for how the structure of DNA determines the structure of proteins, which carry out the essential functions of life through systems of specialized cells.	Biology	37	34	92%	3	8%
HS-PS1-1.PE	Use the periodic table as a model to predict the relative properties of elements based on the patterns of electrons in the outermost energy level and the composition of the nucleus of atoms.	Chemistry	32	21	66%	11	34%
HS-LS1-1.DCI	Structure and Function: Systems of specialized cells within organisms help them perform the essential functions of life. All cells contain genetic information in the form of DNA molecules. Genes are regions in the DNA that contain the instructions that code for the formation of proteins which carry out the essential functions of life.	Biology	30	27	90%	3	10%
6-MS-PS2-1.PE	Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects.	6 <sup>th</sup> grade	29	21	72%	8	28%
7-MS-PS1-2.PE	Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.	7 <sup>th</sup> grade	29	20	69%	9	31%
HS-LS1-2.PE	Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.	Biology	27	24	89%	3	11%
7-MS-PS3-5.PE	Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object.	7 <sup>th</sup> grade	26	18	69%	8	31%
7-MS-PS1-5.PE	Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved.	7 <sup>th</sup> grade	26	17	65%	9	35%
6-MS-ESS1-1.PE	Develop and use a model of the Earth-sun-moon system to describe the reoccurring patterns of lunar phases, eclipses of the sun and moon, and seasons.	6 <sup>th</sup> grade	26	16	62%	10	38%
7-MS-ESS2-4.PE	Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity.	7 <sup>th</sup> grade	26	14	54%	12	46%

## Kindergarten Summary

Total Number of Standards: 10													
Total Reviews: 505													
Keep As Drafted	420	K-12 Administrator	5	<p>Suggest Changes 17%</p> <p>Keep As Drafted 83%</p>									
		Institution or Higher Education Faculty	45										
		Other Educator (not administrator or higher education)	310										
		Member of Organization	18										
		Parent/Guardian											
		Student											
		Other	42										
Suggest Changes	85	K-12 Administrator			<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>4</td> </tr> <tr> <td>Move to a Different Level</td> <td>55</td> </tr> <tr> <td>Rewrite</td> <td>26</td> </tr> </tbody> </table>	Change Suggestions		Remove	4	Move to a Different Level	55	Rewrite	26
		Change Suggestions											
		Remove	4										
		Move to a Different Level	55										
		Rewrite	26										
		Institution or Higher Education Faculty	13										
		Other Educator (not administrator or higher education)	62										
Member of Organization	2												
Parent/Guardian													
Student													
Other	8												

## Kindergarten Breakdown by Standard

	Agree	Removed	New Level	New Description
K-ESS2-1.CC.LE.1a	12			
K-ESS2-1.DCI	11			2
K-ESS2-1.PE	13			
K-ESS2-1.SEP.LE.4	10			
K-ESS2-2.CC.LE.4b	11		1	
K-ESS2-2.DCI	10		1	2
K-ESS2-2.PE	8		4	2
K-ESS2-2.SEP.LE.7	8		1	1
K-ESS3-1.CC.LE.4b	12		1	
K-ESS3-1.DCI	11		1	1
K-ESS3-1.PE	11			
K-ESS3-1.SEP.LE.2	8		2	
K-ESS3-2.CC.LE.2a	11		2	1
K-ESS3-2.DCI	11		2	1
K-ESS3-2.PE	13			
K-ESS3-2.SEP.LE.1	11		1	
K-ESS3-3.CC.LE.2a	12		1	
K-ESS3-3.DCI	11			1

K-ESS3-3.PE	12	2	2	2
K-ESS3-3.SEP.LE.8	11			
K-LS1-1.CC.LE.1a	12			
K-LS1-1.DCI	12			1
K-LS1-1.PE	14			
K-LS1-1.SEP.LE.4	11			
K-PS2-1.CC.LE.2b	13			
K-PS2-1.DCI	13		2	
K-PS2-1.PE	13	1	1	2
K-PS2-1.SEP.LE.3	13		1	1
K-PS2-2.CC.LE.2b	11			
K-PS2-2.DCI	10			1
K-PS2-2.PE	14	1	1	
K-PS2-2.SEP.LE.4	11			1
K-PS3-1.CC.LE.2b	7		4	
K-PS3-1.DCI	5		5	3
K-PS3-1.PE	9		6	1
K-PS3-1.SEP.LE.3	7		2	
K-PS3-2.CC.LE.2a	7		3	
K-PS3-2.DCI	6		5	1
K-PS3-2.PE	9		3	2
K-PS3-2.SEP.LE.6	6		3	
<b>Total</b>	<b>420</b>	<b>4</b>	<b>55</b>	<b>26</b>

## Grade 1 Summary

Total Number of Standards: 10												
Total Reviews: 350												
Keep As Drafted	296	K-12 Administrator	11	<p>Suggest Changes 15%</p> <p>Keep As Drafted 85%</p>								
		Institution or Higher Education Faculty	65									
		Other Educator (not administrator or higher education)	176									
		Member of Organization	3									
		Parent/Guardian										
		Student										
		Other	37									
Suggest Changes	54	K-12 Administrator	1	<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>4</td> </tr> <tr> <td>Move to a Different Level</td> <td>35</td> </tr> <tr> <td>Rewrite</td> <td>15</td> </tr> </tbody> </table>	Change Suggestions		Remove	4	Move to a Different Level	35	Rewrite	15
		Change Suggestions										
		Remove	4									
		Move to a Different Level	35									
		Rewrite	15									
		Institution or Higher Education Faculty	8									
		Other Educator (not administrator or higher education)	40									
Member of Organization	1											
Parent/Guardian												
Student												
Other	4											

## Grade 1 Breakdown by Standard

	Agree	Removed	New Level	New Description
1-ESS1-1.CC.LE.1a	6		1	
1-ESS1-1.DCI	6		1	
1-ESS1-1.PE	7		1	1
1-ESS1-1.SEP.LE.4	7	1	1	
1-ESS1-2.CC.LE.1a	5		2	
1-ESS1-2.DCI	4		2	1
1-ESS1-2.PE	4		3	
1-ESS1-2.SEP.LE.3	5		2	
1-ESS3-1.CC.LE.2a	9			
1-ESS3-1.DCI	6			2
1-ESS3-1.PE	7			1
1-ESS3-1.SEP.LE.1	8			
1-LS1-1.CC.LE.6	9			
1-LS1-1.DCI	8			1
1-LS1-1.PE	7	1	3	1
1-LS1-1.SEP.LE.6	7		2	
1-LS1-2.CC.LE.1a	10			
1-LS1-2.DCI	10			
1-LS1-2.PE	8			3



1-LS1-2.SEP.LE.8	9			
1-LS3-1.CC.LE.1a	9			
1-LS3-1.DCI	7			2
1-LS3-1.PE	5			2
1-LS3-1.SEP.LE.6	9		1	
1-PS4-1.CC.LE.2b	8		1	
1-PS4-1.DCI	10			
1-PS4-1.PE	12		1	
1-PS4-1.SEP.LE.3	10			
1-PS4-2.CC.LE.2b	9			
1-PS4-2.DCI	8	1		
1-PS4-2.PE	9	1		2
1-PS4-2.SEP.LE.6	7			2
1-PS4-3.CC.LE.2b	7			1
1-PS4-3.DCI	7			1
1-PS4-3.PE	7			1
1-PS4-3.SEP.LE.3	7			1
1-PS4-4.DCI	5			2
1-PS4-4.PE	7			1
1-PS4-4.SEP.LE.6	6			2
<b>Total</b>	<b>296</b>	<b>4</b>	<b>35</b>	<b>15</b>

Grade 2 Summary

Total Number of Standards: 11						
Total Reviews: 627						
Keep As Drafted	567	K-12 Administrator	12	<p>Suggest Changes 10%</p> <p>Keep As Drafted 90%</p>		
		Institution or Higher Education Faculty	51			
		Other Educator (not administrator or higher education)	455			
		Member of Organization	8			
		Parent/Guardian				
		Student				
		Other	41			
Suggest Changes	60	K-12 Administrator		Change Suggestions		
		Institution or Higher Education Faculty	5	Remove	7	
		Other Educator (not administrator or higher education)	51	Move to a Different Level	37	
		Member of Organization	1	Rewrite	16	
		Parent/Guardian				
		Student				
		Other	3			

Grade 2 Breakdown by Standard

	Agree	Removed	New Level	New Description
2-ESS1-1.CC.LE.7b	12			1
2-ESS1-1.DCI	11		1	
2-ESS1-1.PE	12		1	1
2-ESS1-1.SEP.LE.8	14			
2-ESS2-1.CC.LE.7b	13			
2-ESS2-1.DCI	10		3	
2-ESS2-1.PE	12		2	
2-ESS2-1.SEP.LE.6	11	1	2	
2-ESS2-2.CC.LE.1a	10	1	3	
2-ESS2-2.DCI	11		3	
2-ESS2-2.PE	13		2	
2-ESS2-2.SEP.LE.2	11	1	2	
2-ESS2-3.CC.LE.1a	11	1	2	
2-ESS2-3.DCI	13			1
2-ESS2-3.PE	12			2
2-ESS2-3.SEP.LE.8	14			
2-LS2-1.CC.LE.2a	15			
2-LS2-1.DCI	13		1	1
2-LS2-1.PE	15			1

2-LS2-1.SEP.LE.3	14			
2-LS2-2.CC.LE.6	12	1	1	
2-LS2-2.DCI	14			
2-LS2-2.PE	12		2	1
2-LS2-2.SEP.LE.2	14			
2-LS4-1.CC.LE.1a	13	1	1	2
2-LS4-1.DCI	15			3
2-LS4-1.PE	16			1
2-LS4-1.SEP.LE.3	17			
2-PS1-1.CC.LE.1a	13	1		1
2-PS1-1.DCI	16			1
2-PS1-1.PE	14		1	
2-PS1-1.SEP.LE.3	15		1	
2-PS1-2.CC.LE.2b	13		1	
2-PS1-2.DCI	13		1	
2-PS1-2.PE	14			
2-PS1-2.SEP.LE.4	12		1	
2-PS1-3.CC.LE.5	13		1	
2-PS1-3.DCI	12		1	
2-PS1-3.PE	14			
2-PS1-3.SEP.LE.6	11		1	
2-PS1-4.CC.LE.2a	11			
2-PS1-4.DCI	11		1	
2-PS1-4.PE	13		1	
2-PS1-4.SEP.LE.7	12		1	
<b>Total</b>	<b>567</b>	<b>7</b>	<b>37</b>	<b>16</b>

## Grade 3 Summary

Total Number of Standards: 15												
Total Reviews: 642												
Keep As Drafted	535	K-12 Administrator	34	<p>Suggest Changes 17%</p> <p>Keep As Drafted 83%</p>								
		Institution or Higher Education Faculty	2									
		Other Educator (not administrator or higher education)	428									
		Member of Organization	11									
		Parent/Guardian										
		Student										
		Other	60									
Suggest Changes	107	K-12 Administrator	2	<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>11</td> </tr> <tr> <td>Move to a Different Level</td> <td>68</td> </tr> <tr> <td>Rewrite</td> <td>28</td> </tr> </tbody> </table>	Change Suggestions		Remove	11	Move to a Different Level	68	Rewrite	28
		Change Suggestions										
		Remove	11									
		Move to a Different Level	68									
		Rewrite	28									
		Institution or Higher Education Faculty	8									
		Other Educator (not administrator or higher education)	96									
Member of Organization	1											
Parent/Guardian												
Student												
Other												

## Grade 3 Breakdown by Standard

	Agree	Removed	New Level	New Description
3-ESS2-1.CC.UE.1b	7			
3-ESS2-1.DCI	8			1
3-ESS2-1.PE	9			
3-ESS2-1.SEP.UE.4	7		1	
3-ESS2-2.CC.UE.1b	10			
3-ESS2-2.DCI	10			
3-ESS2-2.PE	8		1	1
3-ESS2-2.SEP.UE.8	7		2	
3-LS1-1.CC.UE.1b	13			
3-LS1-1.DCI	14			1
3-LS1-1.PE	13			
3-LS1-1.SEP.UE.2	12			1
3-LS2-1.CC.UE.2a	8			1
3-LS2-1.DCI	11			1
3-LS2-1.PE	8	1		
3-LS2-1.SEP.UE.7	7		3	
3-LS3-1.CC.UE.1a	9		1	1
3-LS3-1.DCI	9		3	
3-LS3-1.PE	8		4	1

3-LS3-1.SEP.UE.4	8		2	
3-LS3-2.CC.UE.2a	9		1	
3-LS3-2.DCI	7		3	
3-LS3-2.PE	8		3	
3-LS3-2.SEP.UE.6	6		2	
3-LS4-1.CC.UE.3a	7	2		1
3-LS4-1.DCI	7	1	1	1
3-LS4-1.PE	7	1	1	1
3-LS4-1.SEP.UE.4	6		1	
3-LS4-2.CC.UE.2a	6			
3-LS4-2.DCI	6		1	1
3-LS4-2.PE	7		1	
3-LS4-2.SEP.UE.6	6		1	
3-LS4-3.CC.UE.2a	7			
3-LS4-3.DCI	6	1	1	1
3-LS4-3.PE	7	1	2	
3-LS4-3.SEP.UE.7	7		1	
3-LS4-4.CC.UE.4b	5		1	
3-LS4-4.DCI	4		2	
3-LS4-4.PE	5	1	1	
3-LS4-4.SEP.UE.7	5		1	
3-PS2-1.CC.UE.2a	19			
3-PS2-1.DCI	12		2	3
3-PS2-1.PE	25			
3-PS2-1.SEP.UE.3	15		2	2
3-PS2-2.CC.UE.1b	12		1	
3-PS2-2.DCI	15		1	
3-PS2-2.PE	13	1		2
3-PS2-2.SEP.UE.3	8		2	2
3-PS2-3.CC.UE.2a	11			
3-PS2-3.DCI	10		1	1
3-PS2-3.PE	12	1	1	
3-PS2-3.SEP.UE.1	9			1
3-PS2-4.DCI	7		3	
3-PS2-4.PE	10	1	2	
3-PS2-4.SEP.UE.1	6		5	
5-ESS3-1.CC.UE.2a	9		1	
5-ESS3-1.DCI	9		1	1
5-ESS3-1.PE	9		2	2
5-ESS3-1.SEP.UE.7	7		2	
<b>Total</b>	<b>535</b>	<b>11</b>	<b>68</b>	<b>28</b>

Grade 4 Summary

Total Number of Standards: 14												
Total Reviews: 930												
Keep As Drafted	777	K-12 Administrator	1	<p>Suggest Changes 16%</p> <p>Keep As Drafted 84%</p>								
		Institution or Higher Education Faculty	2									
		Other Educator (not administrator or higher education)	653									
		Member of Organization	3									
		Parent/Guardian	6									
		Student										
		Other	112									
Suggest Changes	153	K-12 Administrator		<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>52</td> </tr> <tr> <td>Move to a Different Level</td> <td>79</td> </tr> <tr> <td>Rewrite</td> <td>22</td> </tr> </tbody> </table>	Change Suggestions		Remove	52	Move to a Different Level	79	Rewrite	22
		Change Suggestions										
		Remove	52									
		Move to a Different Level	79									
		Rewrite	22									
		Institution or Higher Education Faculty	3									
		Other Educator (not administrator or higher education)	98									
Member of Organization	1											
Parent/Guardian	51											
Student												
Other												

Grade 4 Breakdown by Standard

	Agree	Removed	New Level	New Description
4-ESS1-1.CC.UE.1c	15	1		1
4-ESS1-1.DCI	15	1	1	
4-ESS1-1.PE	15	1	2	
4-ESS1-1.SEP.UE.6	11	3		
4-ESS2-1.CC.UE.2a	13		2	
4-ESS2-1.DCI	13		2	
4-ESS2-1.PE	13	2	1	
4-ESS2-1.SEP.UE.3	12	1	1	
4-ESS2-2.CC.UE.1c	13		1	
4-ESS2-2.DCI	12		3	
4-ESS2-2.PE	12	1	3	
4-ESS2-2.SEP.UE.4	12	2	1	
4-ESS2-3.CC.UE.2a	13		2	
4-ESS2-3.DCI	15			
4-ESS2-3.PE	14	1	1	1
4-ESS2-3.SEP.UE.1	12	1	1	
4-ESS3-1.CC.UE.2a	13	2	1	
4-ESS3-1.DCI	13		2	1
4-ESS3-1.PE	19		1	

4-ESS3-1.SEP.UE.8	13	2	1	
4-ESS3-2.CC.UE.2a	15	1	1	1
4-ESS3-2.DCI	16		1	1
4-ESS3-2.PE	16	1		1
4-ESS3-2.SEP.UE.6	13	1	2	1
4-LS1-1.CC.UE.4b	13	1		
4-LS1-1.DCI	15			
4-LS1-1.PE	13		1	2
4-LS1-1.SEP.UE.7	12	1		
4-LS1-2.CC.UE.2b	14		1	
4-LS1-2.DCI	10		5	
4-LS1-2.PE	14		2	
4-LS1-2.SEP.UE.6	12	1		
4-PS3-1.CC.UE.5c	19		1	
4-PS3-1.DCI	15	3	1	2
4-PS3-1.PE	19	2	3	
4-PS3-1.SEP.UE.6	17	2	2	1
4-PS3-2.CC.UE.5c	19			
4-PS3-2.DCI	17		1	2
4-PS3-2.PE	20		1	
4-PS3-2.SEP.UE.3	13	3	1	1
4-PS3-3.CC.UE.5c	16	1		
4-PS3-3.DCI	18		1	
4-PS3-3.PE	14	2	2	1
4-PS3-3.SEP.UE.1	13	1	1	1
4-PS3-4.CC.UE.5c	14			1
4-PS3-4.DCI	12		4	
4-PS3-4.PE	12	1	3	1
4-PS3-4.SEP.UE.6	10	3	2	1
4-PS4-1.CC.UE.1a	9	3	2	
4-PS4-1.DCI	13	1	1	
4-PS4-1.PE	16	1	4	1
4-PS4-1.SEP.UE.2	12	2	2	1
4-PS4-2.CC.UE.2a	12		2	
4-PS4-2.DCI	12		2	
4-PS4-2.PE	14	2	3	
4-PS4-2.SEP.UE.2	10	1	1	
<b>Grand Total</b>	<b>777</b>	<b>52</b>	<b>79</b>	<b>22</b>

Grade 5 Summary

Total Number of Standards: 13												
Total Reviews: 675												
Keep As Drafted	604	K-12 Administrator		<p>Suggest Changes 11%</p> <p>Keep As Drafted 89%</p>								
		Institution or Higher Education Faculty	19									
		Other Educator (not administrator or higher education)	526									
		Member of Organization	8									
		Parent/Guardian										
		Student										
		Other	51									
Suggest Changes	71	K-12 Administrator		<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>8</td> </tr> <tr> <td>Move to a Different Level</td> <td>32</td> </tr> <tr> <td>Rewrite</td> <td>31</td> </tr> </tbody> </table>	Change Suggestions		Remove	8	Move to a Different Level	32	Rewrite	31
		Change Suggestions										
		Remove	8									
		Move to a Different Level	32									
		Rewrite	31									
		Institution or Higher Education Faculty	4									
		Other Educator (not administrator or higher education)	66									
Member of Organization												
Parent/Guardian												
Student												
Other	1											

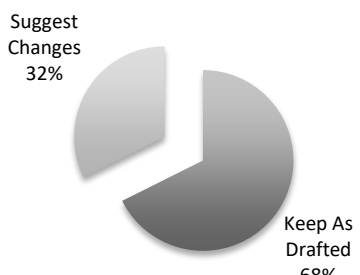
Grade 5 Breakdown by Standard

	Agree	Removed	New Level	New Description
5-ESS1-1.CC.UE.3a	9		1	
5-ESS1-1.DCI	12		1	
5-ESS1-1.PE	11		1	
5-ESS1-1.SEP.UE.7	8		1	1
5-ESS1-2.CC.UE.1a	10	1		
5-ESS1-2.DCI	13			
5-ESS1-2.PE	10	1	3	
5-ESS1-2.SEP.UE.4	10			
5-ESS2-1.CC.UE.4b	12			
5-ESS2-1.DCI	11		2	2
5-ESS2-1.PE	11		2	1
5-ESS2-1.SEP.UE.2	8			
5-ESS2-2.CC.UE.3b	11			1
5-ESS2-2.DCI	13			1
5-ESS2-2.PE	14			
5-ESS2-2.SEP.UE.5	9			
5-ESS3-1.CC.UE.4b	17		1	
5-ESS3-1.DCI	14		1	
5-ESS3-1.PE	14		1	



5-ESS3-1.SEP.UE.8	11			
5-LS1-1.CC.UE.5b	12	1		1
5-LS1-1.DCI	10		1	2
5-LS1-1.PE	11	1	2	2
5-LS1-1.SEP.UE.1	13			
5-LS2-1.CC.UE.4b	8	1		1
5-LS2-1.DCI	11			2
5-LS2-1.PE	13		2	
5-LS2-1.SEP.UE.2	10			
5-PS1-1.CC.UE.3a	10	2	1	
5-PS1-1.DCI	14			1
5-PS1-1.PE	18		1	1
5-PS1-1.SEP.UE.2	9		2	1
5-PS1-2.CC.UE.3b	14			1
5-PS1-2.DCI	12		1	
5-PS1-2.PE	13		2	
5-PS1-2.SEP.UE.4	10	1		1
5-PS1-3.CC.UE.3b	12			1
5-PS1-3.DCI	13			
5-PS1-3.PE	11		1	
5-PS1-3.SEP.UE.3	9		1	1
5-PS1-4.CC.UE.2a	10		1	
5-PS1-4.DCI	13			
5-PS1-4.PE	13			
5-PS1-4.SEP.UE.3	11			
5-PS2-1.CC.UE.2a	10		1	1
5-PS2-1.DCI	12			1
5-PS2-1.PE	15		1	
5-PS2-1.SEP.UE.7	11		1	1
5-PS3-1.CC.UE.5c	12			
5-PS3-1.DCI	13			3
5-PS3-1.PE	11			3
5-PS3-1.SEP.UE.2	12			1
<b>Grand Total</b>	<b>604</b>	<b>8</b>	<b>32</b>	<b>31</b>

## Grade 6 Summary

Total Number of Standards: 18			
Total Reviews: 1038			
Keep As Drafted	702	K-12 Administrator	16
		Institution or Higher Education Faculty	50
		Other Educator (not administrator or higher education)	558
		Member of Organization	10
		Parent/Guardian	
		Student	
		Other	68
Suggest Changes	336	K-12 Administrator	47
		Institution or Higher Education Faculty	6
		Other Educator (not administrator or higher education)	252
		Member of Organization	6
		Parent/Guardian	
		Student	
		Other	25
 <p>Suggest Changes 32%</p> <p>Keep As Drafted 68%</p>			
Change Suggestions			
		Remove	45
		Move to a Different Level	215
		Rewrite	76

## Grade 6 Breakdown by Standard

	Agree	Removed	New Level	New Description
6-MS-ESS1-1.CC.MS.1c	10	2	4	
6-MS-ESS1-1.DCI	8	2	8	1
6-MS-ESS1-1.PE	10	3	11	2
6-MS-ESS1-1.SEP.MS.2	9	3	3	1
6-MS-ESS1-2.CC.MS.4b	9	2	4	
6-MS-ESS1-2.DCI	6	2	8	2
6-MS-ESS1-2.PE	9	2	10	1
6-MS-ESS1-2.SEP.MS.2	8	2	5	1
6-MS-ESS1-3.CC.MS.3a	8	2	7	
6-MS-ESS1-3.DCI	8	2	8	1
6-MS-ESS1-3.PE	8	1	12	1
6-MS-ESS1-3.SEP.MS.4	9	2	4	
6-MS-ESS3-4.CC.MS.2b	8		3	
6-MS-ESS3-4.DCI	8		5	
6-MS-ESS3-4.PE	10		7	2
6-MS-ESS3-4.SEP.MS.7	7		2	1
6-MS-LS1-1.CC.MS.3e	9	1	2	
6-MS-LS1-1.DCI	9	1	6	1
6-MS-LS1-1.PE	10	2	9	

6-MS-LS1-1.SEP.MS.3	6	1	1	
6-MS-LS1-2.CC.MS.6a	7		5	
6-MS-LS1-2.DCI	6		6	1
6-MS-LS1-2.PE	7		9	3
6-MS-LS1-2.SEP.MS.2	5		1	1
6-MS-LS2-1.CC.MS.2b	5	1	3	
6-MS-LS2-1.DCI	5	1	7	1
6-MS-LS2-1.PE	7	2	10	
6-MS-LS2-1.SEP.MS.4	5	1	3	
6-MS-LS2-2.CC.MS.1c	5	1	2	
6-MS-LS2-2.DCI	5	1	6	1
6-MS-LS2-2.PE	7	2	10	
6-MS-LS2-2.SEP.MS.6	5	1	4	1
6-MS-LS2-3.CC.MS.5d	7		1	1
6-MS-LS2-3.DCI	7		5	1
6-MS-LS2-3.PE	8		5	1
6-MS-LS2-3.SEP.MS.2	6	1	1	
6-MS-PS1-1.CC.MS.3a	9			1
6-MS-PS1-1.DCI	10			2
6-MS-PS1-1.PE	10			4
6-MS-PS1-1.SEP.MS.2	9			1
6-MS-PS1-7.CC.MS.3a	8			
6-MS-PS1-7.DCI	9			
6-MS-PS1-7.PE	11			1
6-MS-PS1-7.SEP.MS.2	8			
6-MS-PS1-8.CC.HS.1a	6		1	1
6-MS-PS1-8.CC.MS.3a	6		1	1
6-MS-PS1-8.DCI	9		1	
6-MS-PS1-8.PE	8		1	3
6-MS-PS1-8.SEP.MS.2	5		1	1
6-MS-PS1-8.SEP.MS.8	4		2	
6-MS-PS2-1.CC.MS.4b	17	1		2
6-MS-PS2-1.DCI	18			5
6-MS-PS2-1.PE	21			8
6-MS-PS2-1.SEP.MS.6	22	1	1	1
6-MS-PS2-2.CC.MS.7a	10	2	1	2
6-MS-PS2-2.DCI	15			2
6-MS-PS2-2.PE	16			2
6-MS-PS2-2.SEP.MS.3	15			2
6-MS-PS2-3.CC.MS.2b	13			1
6-MS-PS2-3.DCI	12		1	1
6-MS-PS2-3.PE	12		3	2
6-MS-PS2-3.SEP.MS.1	13			1
6-MS-PS2-4.CC.MS.4b	14			
6-MS-PS2-4.DCI	15		2	
6-MS-PS2-4.PE	16		2	
6-MS-PS2-4.SEP.MS.7	13			
6-MS-PS2-5.CC.MS.2b	13			
6-MS-PS2-5.DCI	14			

6-MS-PS2-5.PE	13		1	2
6-MS-PS2-5.SEP.MS.3	12			
6-MS-PS4-2.CC.MS.6b	7			
6-MS-PS4-2.DCI	8			
6-MS-PS4-2.PE	9			3
6-MS-PS4-2.SEP.MS.2	6			2
<b>Total</b>	<b>702</b>	<b>45</b>	<b>215</b>	<b>76</b>

## Grade 7 Summary

Total Number of Standards: 19						
Total Reviews: 1336						
Keep As Drafted	713	K-12 Administrator	14	<p>Suggest Changes 47%</p> <p>Keep As Drafted 53%</p>		
		Institution or Higher Education Faculty	90			
		Other Educator (not administrator or higher education)	519			
		Member of Organization	18			
		Parent/Guardian				
		Student				
		Other	72			
Suggest Changes	623	K-12 Administrator	58			
		Institution or Higher Education Faculty	9			
		Other Educator (not administrator or higher education)	515			
		Member of Organization	8	Change Suggestions		
		Parent/Guardian	4	Remove	71	
		Student		Move to a Different Level	502	
		Other	29	Rewrite	50	

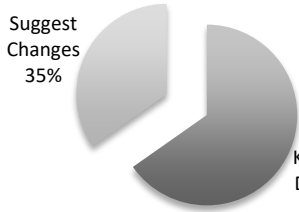
## Grade 7 Breakdown by Standard

	Agree	Removed	New Level	New Description
7-MS-ESS2-4.CC.MS.5b	8	1	8	
7-MS-ESS2-4.DCI	7	1	10	1
7-MS-ESS2-4.PE	12	1	12	1
7-MS-ESS2-4.SEP.MS.2	8		5	
7-MS-ESS2-5.CC.MS.2b	7	1	6	
7-MS-ESS2-5.DCI	5	2	10	2
7-MS-ESS2-5.PE	10	1	13	1
7-MS-ESS2-5.SEP.MS.3	7	1	6	
7-MS-ESS2-6.CC.MS.4b	7	1	6	
7-MS-ESS2-6.DCI	4	2	10	2
7-MS-ESS2-6.PE	8	1	14	
7-MS-ESS2-6.SEP.MS.2	7	1	6	
7-MS-ESS3-5.CC.MS.7c	7	1	7	
7-MS-ESS3-5.DCI	5	1	10	4
7-MS-ESS3-5.PE	9	2	13	1
7-MS-ESS3-5.SEP.MS.1	6	1	8	1
7-MS-LS1-3.CC.MS.4a	14			
7-MS-LS1-3.DCI	15			1
7-MS-LS1-3.PE	18			4

7-MS-LS1-3.SEP.MS.7	12	1		1
7-MS-LS1-6.CC.MS.5b	11	1		
7-MS-LS1-6.DCI	14			1
7-MS-LS1-6.PE	16			2
7-MS-LS1-6.SEP.MS.6	11	2	1	
7-MS-LS1-7.CC.MS.5a	12	1	1	
7-MS-LS1-7.DCI	14			1
7-MS-LS1-7.PE	14	1	3	2
7-MS-LS1-7.SEP.MS.2	11	1	1	1
7-MS-LS2-4.CC.MS.7b	12			
7-MS-LS2-4.DCI	12			1
7-MS-LS2-4.PE	14		1	3
7-MS-LS2-4.SEP.MS.7	11	2	1	
7-MS-LS2-5.CC.MS.7b	13			
7-MS-LS2-5.DCI	10		3	
7-MS-LS2-5.PE	16	1	2	
7-MS-LS2-5.SEP.MS.6	10		2	
7-MS-LS4-4.CC.MS.2c	14	2		
7-MS-LS4-4.DCI	15	2		2
7-MS-LS4-4.PE	19	1		3
7-MS-LS4-4.SEP.MS.6	11	2		
7-MS-LS4-5.CC.MS.2c	12	1		
7-MS-LS4-5.DCI	13	1		1
7-MS-LS4-5.PE	16	1	2	1
7-MS-LS4-5.SEP.MS.8	11	2		
7-MS-PS1-2.CC.MS.1a	7	1	12	
7-MS-PS1-2.DCI	11	1	11	
7-MS-PS1-2.PE	9	2	17	1
7-MS-PS1-2.SEP.MS.4	12	1	5	
7-MS-PS1-3.CC.MS.6b	6	1	10	
7-MS-PS1-3.DCI	6	1	12	
7-MS-PS1-3.PE	9	1	9	1
7-MS-PS1-3.SEP.MS.8	11	2	3	
7-MS-PS1-4.CC.MS.2b	4		8	
7-MS-PS1-4.DCI	3		12	
7-MS-PS1-4.PE	7	1	17	
7-MS-PS1-4.SEP.MS.2	8		5	
7-MS-PS1-5.CC.MS.5a	6	1	9	
7-MS-PS1-5.DCI	6	1	11	
7-MS-PS1-5.PE	9	1	15	1
7-MS-PS1-5.SEP.MS.2	5	1	8	1
7-MS-PS3-1.CC.MS.3c	6	1	11	
7-MS-PS3-1.DCI	5	1	12	
7-MS-PS3-1.PE	8	1	16	1
7-MS-PS3-1.SEP.MS.4	10	1	6	
7-MS-PS3-2.CC.MS.4b	9	1	6	1
7-MS-PS3-2.DCI	5	1	12	
7-MS-PS3-2.PE	4	1	18	2
7-MS-PS3-2.SEP.MS.2	7	1	8	1

7-MS-PS3-4.CC.MS.3c	5	1	11	
7-MS-PS3-4.DCI	6	1	11	
7-MS-PS3-4.PE	7	1	14	1
7-MS-PS3-4.SEP.MS.3	9	1	5	
7-MS-PS3-5.CC.MS.5c	6	1	10	1
7-MS-PS3-5.DCI	5	1	12	
7-MS-PS3-5.PE	8	1	17	1
7-MS-PS3-5.SEP.MS.7	6	1	8	1
<b>Total</b>	<b>713</b>	<b>71</b>	<b>502</b>	<b>50</b>

## Grade 8 Summary

Total Number of Standards: 20												
Total Reviews: 1111												
Keep As Drafted	725	K-12 Administrator	24	 <p>Suggest Changes 35%</p> <p>Keep As Drafted 65%</p>								
		Institution or Higher Education Faculty	20									
		Other Educator (not administrator or higher education)	426									
		Member of Organization	21									
		Parent/Guardian	81									
		Student										
		Other	153									
Suggest Changes	386	K-12 Administrator	37	<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>57</td> </tr> <tr> <td>Move to a Different Level</td> <td>255</td> </tr> <tr> <td>Rewrite</td> <td>74</td> </tr> </tbody> </table>	Change Suggestions		Remove	57	Move to a Different Level	255	Rewrite	74
		Change Suggestions										
		Remove	57									
		Move to a Different Level	255									
		Rewrite	74									
		Institution or Higher Education Faculty	6									
		Other Educator (not administrator or higher education)	316									
Member of Organization	9											
Parent/Guardian	8											
Student												
Other	10											

## Grade 8 Breakdown by Standard

	Agree	Removed	New Level	New Description
8-MS-ESS1-4.CC.MS.3a	7	2	1	2
8-MS-ESS1-4.DCI	12			2
8-MS-ESS1-4.PE	16			1
8-MS-ESS1-4.SEP.MS.6	10	1		1
8-MS-ESS2-1.CC.MS.7a	9	1	2	1
8-MS-ESS2-1.DCI	10		1	3
8-MS-ESS2-1.PE	14			2
8-MS-ESS2-1.SEP.MS.2	11		1	1
8-MS-ESS2-2.CC.MS.3a	6	2	2	2
8-MS-ESS2-2.DCI	7	1	1	3
8-MS-ESS2-2.PE	13			3
8-MS-ESS2-2.SEP.MS.6	10		2	
8-MS-ESS2-3.CC.MS.1b	8		1	1
8-MS-ESS2-3.DCI	11			
8-MS-ESS2-3.PE	13		1	
8-MS-ESS2-3.SEP.MS.4	8		1	
8-MS-ESS3-1.CC.MS.2b	7		1	3
8-MS-ESS3-1.DCI	9		1	
8-MS-ESS3-1.PE	9	1	2	1



8-MS-ESS3-1.SEP.MS.6	8		2	
8-MS-ESS3-2.CC.MS.1d	9			1
8-MS-ESS3-2.DCI	10		1	
8-MS-ESS3-2.PE	11		1	1
8-MS-ESS3-2.SEP.MS.4	7		1	1
8-MS-ESS3-3.CC.MS.2a	7		1	1
8-MS-ESS3-3.DCI	8		1	2
8-MS-ESS3-3.PE	11		2	
8-MS-ESS3-3.SEP.MS.6	10			
8-MS-LS1-4.CC.MS.2c	5	1	4	1
8-MS-LS1-4.DCI	5	1	8	
8-MS-LS1-4.PE	7	2	8	
8-MS-LS1-4.SEP.MS.7	6		6	
8-MS-LS1-5.CC.MS.2c	6		4	1
8-MS-LS1-5.DCI	6	1	7	
8-MS-LS1-5.PE	8	1	7	
8-MS-LS1-5.SEP.MS.6	6		4	
8-MS-LS3-1.CC.MS.6a	6	2	6	2
8-MS-LS3-1.DCI	7	1	8	1
8-MS-LS3-1.PE	8	1	12	2
8-MS-LS3-1.SEP.MS.2	7	1	4	
8-MS-LS3-2.CC.MS.2b	7	1	4	1
8-MS-LS3-2.DCI	7	1	7	
8-MS-LS3-2.PE	9	1	9	
8-MS-LS3-2.SEP.MS.2	6		4	
8-MS-LS4-1.CC.MS.1d	8		4	1
8-MS-LS4-1.DCI	12		3	2
8-MS-LS4-1.PE	12	3	4	2
8-MS-LS4-1.SEP.MS.4	9	1	2	
8-MS-LS4-2.CC.MS.1c	8		3	1
8-MS-LS4-2.DCI	7	2	4	2
8-MS-LS4-2.PE	9	2	6	3
8-MS-LS4-2.SEP.MS.6	8		2	
8-MS-LS4-3.CC.MS.1d	6	2	3	
8-MS-LS4-3.DCI	6	4	4	1
8-MS-LS4-3.PE	7	1	9	2
8-MS-LS4-3.SEP.MS.4	7	1	4	
8-MS-LS4-6.CC.MS.2c	7	1	3	1
8-MS-LS4-6.DCI	8	1	6	
8-MS-LS4-6.PE	9	1	7	1
8-MS-LS4-6.SEP.MS.5	7	1	4	
8-MS-PS1-1.CC.MS.3a	12	2	1	
8-MS-PS1-1.DCI	14	2	1	
8-MS-PS1-1.PE	13	1	4	4
8-MS-PS1-1.SEP.MS.2	13	1	1	1
8-MS-PS1-6.CC.MS.5d	10		3	1
8-MS-PS1-6.DCI	8		5	
8-MS-PS1-6.PE	8	2	5	2
8-MS-PS1-6.SEP.MS.6	10			1

8-MS-PS1-8.CC.HS.1a	11	2	1	1
8-MS-PS1-8.DCI	12	1	3	
8-MS-PS1-8.PE	12		6	1
8-MS-PS1-8.SEP.MS.2	12	1	1	
8-MS-PS3-3.CC.MS.5d	10	1	2	1
8-MS-PS3-3.DCI	8		4	1
8-MS-PS3-3.PE	12	1	5	1
8-MS-PS3-3.SEP.MS.6	8	1	3	1
8-MS-PS4-1.CC.MS.1d	13		1	
8-MS-PS4-1.DCI	11		5	
8-MS-PS4-1.PE	11		5	3
8-MS-PS4-1.SEP.MS.5	10		3	
<b>Total</b>	<b>725</b>	<b>57</b>	<b>255</b>	<b>74</b>

## High School Life Science Summary

Total Number of Standards: 24						
Total Reviews: 1374						
Keep As Drafted	1189	K-12 Administrator	140	<p>Suggest Changes 13%</p> <p>Keep As Drafted 87%</p>		
		Institution or Higher Education Faculty	252			
		Other Educator (not administrator or higher education)	719			
		Member of Organization				
		Parent/Guardian				
		Student	1			
		Other	77			
Suggest Changes	185	K-12 Administrator	33			
		Institution or Higher Education Faculty	17			
		Other Educator (not administrator or higher education)	104			
		Member of Organization			Change Suggestions	
		Parent/Guardian	15		Remove	77
		Student			Move to a Different Level	17
		Other	15		Rewrite	91

## High School Life Science Breakdown by Standard

	Agree	Removed	New Level	New Description
HS-LS1-1.CC.HS.6a	18	2		2
HS-LS1-1.DCI	27			3
HS-LS1-1.PE	34			3
HS-LS1-1.SEP.HS.6	22			3
HS-LS1-2.CC.HS.4c	15	1		
HS-LS1-2.DCI	19			
HS-LS1-2.PE	24	2		1
HS-LS1-2.SEP.HS.2	14	1		
HS-LS1-3.CC.HS.7c	13	3		
HS-LS1-3.DCI	13	1		1
HS-LS1-3.PE	23			
HS-LS1-3.SEP.HS.3	14			1
HS-LS1-4.CC.HS.4c	14	1		1
HS-LS1-4.DCI	19			
HS-LS1-4.PE	20	2		
HS-LS1-4.SEP.HS.2	14	1		
HS-LS1-5.CC.HS.5b	14			
HS-LS1-5.DCI	17			
HS-LS1-5.PE	21			
HS-LS1-5.SEP.HS.2	12			1

HS-LS1-6.CC.HS.5b	14		1	
HS-LS1-6.DCI	17			
HS-LS1-6.PE	17	1		
HS-LS1-6.SEP.HS.6	13			
HS-LS1-7.CC.HS.5c	13			
HS-LS1-7.DCI	13			1
HS-LS1-7.PE	17			
HS-LS1-7.SEP.HS.2	12	1		
HS-LS1-8.CC.HS.4c	13	1		
HS-LS1-8.DCI	14	1		1
HS-LS1-8.PE	14	6		1
HS-LS1-8.SEP.HS.2	11	2		
HS-LS1-9.CC.HS.3a	12			
HS-LS1-9.DCI	15			1
HS-LS1-9.PE	17			1
HS-LS1-9.SEP.HS.8	13			1
HS-LS2-1.CC.HS.3a	11	1	1	
HS-LS2-1.DCI	13	1	2	
HS-LS2-1.PE	15	4	2	2
HS-LS2-1.SEP.HS.5	12		1	
HS-LS2-2.CC.HS.3d	10	1		
HS-LS2-2.DCI	12	1	1	2
HS-LS2-2.PE	14	4	1	2
HS-LS2-2.SEP.HS.5	12			
HS-LS2-3.CC.HS.5d	10			
HS-LS2-3.DCI	10			2
HS-LS2-3.PE	11	1		2
HS-LS2-3.SEP.HS.6	9	1		
HS-LS2-4.CC.HS.5c	10	1		
HS-LS2-4.DCI	11	2	1	
HS-LS2-4.PE	11	4		2
HS-LS2-4.SEP.HS.5	10			
HS-LS2-5.CC.HS.4c	9			
HS-LS2-5.DCI	10	1	1	1
HS-LS2-5.PE	11	4		1
HS-LS2-5.SEP.HS.2	8			
HS-LS2-6.CC.HS.7a	6	1	1	
HS-LS2-6.DCI	7	1	2	1
HS-LS2-6.PE	8	3	1	2
HS-LS2-6.SEP.HS.7	6	1	1	
HS-LS2-7.CC.HS.7a	9			
HS-LS2-7.DCI	10	1	1	2
HS-LS2-7.PE	10	4		2
HS-LS2-7.SEP.HS.6	9	1		
HS-LS3-1.CC.HS.2a	8	1		
HS-LS3-1.DCI	8			3
HS-LS3-1.PE	12			3
HS-LS3-1.SEP.HS.1	7	1		
HS-LS3-2.CC.HS.2a	8			1

HS-LS3-2.DCI	8		1
HS-LS3-2.PE	11		3
HS-LS3-2.SEP.HS.7	7	1	1
HS-LS3-3.CC.HS.3e	9		
HS-LS3-3.DCI	8		
HS-LS3-3.PE	12		1
HS-LS3-3.SEP.HS.4	7		
HS-LS4-1.CC.HS.1a	7	1	1
HS-LS4-1.DCI	10		3
HS-LS4-1.PE	18		3
HS-LS4-1.SEP.HS.4	10	1	
HS-LS4-2.CC.HS.2a	7	1	
HS-LS4-2.DCI	9	1	1
HS-LS4-2.PE	16		2
HS-LS4-2.SEP.HS.6	8		1
HS-LS4-3.CC.HS.1a	9	1	
HS-LS4-3.DCI	11		4
HS-LS4-3.PE	12	1	3
HS-LS4-3.SEP.HS.4	9		
HS-LS4-4.CC.HS.2b	7	1	1
HS-LS4-4.DCI	10	1	6
HS-LS4-4.PE	14		3
HS-LS4-4.SEP.HS.6	8	1	
HS-LS4-5.CC.HS.2a	8	1	
HS-LS4-5.DCI	12		1
HS-LS4-5.PE	14		6
HS-LS4-5.SEP.HS.7	9		
<b>Total</b>	<b>1189</b>	<b>77</b>	<b>17</b>
			<b>91</b>

## High School Chemistry Summary

Total Number of Standards: 13												
Total Reviews: 625												
Keep As Drafted	530	K-12 Administrator	5	<p>Suggest Changes 15%</p> <p>Keep As Drafted 85%</p>								
		Institution or Higher Education Faculty	12									
		Other Educator (not administrator or higher education)	456									
		Member of Organization										
		Parent/Guardian	1									
		Student										
		Other	56									
Suggest Changes	95	K-12 Administrator	1	<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>27</td> </tr> <tr> <td>Move to a Different Level</td> <td>6</td> </tr> <tr> <td>Rewrite</td> <td>62</td> </tr> </tbody> </table>	Change Suggestions		Remove	27	Move to a Different Level	6	Rewrite	62
		Change Suggestions										
		Remove	27									
		Move to a Different Level	6									
		Rewrite	62									
		Institution or Higher Education Faculty										
		Other Educator (not administrator or higher education)	69									
Member of Organization												
Parent/Guardian	11											
Student												
Other	14											

## High School Chemistry Breakdown by Standard

	Agree	Removed	New Level	New Description
HS-PS1-1.CC.HS.1a	10	1		1
HS-PS1-1.DCI	14			1
HS-PS1-1.PE	21	6		5
HS-PS1-1.SEP.HS.2	11	3		1
HS-PS1-2.CC.HS.1a	9	1		1
HS-PS1-2.DCI	15			1
HS-PS1-2.PE	18			4
HS-PS1-2.SEP.HS.6	12			2
HS-PS1-3.CC.HS.1a	7			
HS-PS1-3.CC.HS.3b	6			
HS-PS1-3.DCI	8	1		
HS-PS1-3.PE	15			2
HS-PS1-3.SEP.HS.3	8			
HS-PS1-4.CC.HS.5b	9			
HS-PS1-4.DCI	8			2
HS-PS1-4.PE	12			3
HS-PS1-4.SEP.HS.2	7			
HS-PS1-5.CC.HS.1a	7			
HS-PS1-5.CC.HS.2b	7			
HS-PS1-5.DCI	8			

HS-PS1-5.PE	13			5
HS-PS1-5.SEP.HS.1	10			
HS-PS1-5.SEP.HS.6	7			1
HS-PS1-6.CC.HS.2b	7			
HS-PS1-6.CC.HS.7a	7			
HS-PS1-6.DCI	8			1
HS-PS1-6.PE	11			3
HS-PS1-6.SEP.HS.6	8			
HS-PS1-7.CC.HS.3b	7			
HS-PS1-7.CC.HS.5a	9			
HS-PS1-7.DCI	8			
HS-PS1-7.PE	10		1	5
HS-PS1-7.SEP.HS.5	7			1
HS-PS1-8.CC.HS.3b	8			
HS-PS1-8.CC.HS.5e	9			
HS-PS1-8.DCI	8			
HS-PS1-8.PE	13			3
HS-PS1-8.SEP.HS.2	8			1
HS-PS2-6.CC.HS.6a	10			
HS-PS2-6.DCI	10			1
HS-PS2-6.PE	11	2		2
HS-PS2-6.SEP.HS.7	8	1		
HS-PS2-6.SEP.HS.8	10			
HS-PS3-1.CC.HS.4d	6			
HS-PS3-1.DCI	8			1
HS-PS3-1.PE	10	2	1	3
HS-PS3-1.SEP.HS.5	8			1
HS-PS3-3.CC.HS.5b	7			
HS-PS3-3.DCI	6			1
HS-PS3-3.PE	8	2	2	2
HS-PS3-3.SEP.HS.6	7			
HS-PS3-4.CC.HS.4b	5			
HS-PS3-4.DCI	6			1
HS-PS3-4.PE	9	2	1	2
HS-PS3-4.SEP.HS.3	6			
HS-PS3-4.SEP.HS.4	6			
HS-PS3-6.CC.HS.5e	5			
HS-PS3-6.DCI	4	1		1
HS-PS3-6.PE	6	4	1	3
HS-PS3-6.SEP.HS.7	4	1		1
<b>Grand Total</b>	<b>530</b>	<b>27</b>	<b>6</b>	<b>62</b>

## High School Physics Summary

Total Number of Standards: 16					
Total Reviews: 293					
Keep As Drafted	190	K-12 Administrator	4	<p>Suggest Changes 35%</p> <p>Keep As Drafted 65%</p>	
		Institution or Higher Education Faculty	60		
		Other Educator (not administrator or higher education)	67		
		Member of Organization			
		Parent/Guardian			
		Student			
		Other	59		
Suggest Changes	103	K-12 Administrator			
		Institution or Higher Education Faculty	3		
		Other Educator (not administrator or higher education)	52		
		Member of Organization	33	Change Suggestions	
		Parent/Guardian	11	Remove	18
		Student		Move to a Different Level	4
		Other	4	Rewrite	81

## High School Physics Breakdown by Standard

	Agree	Removed	New Level	New Description
HS-PS2-1.CC.HS.2a	4	1		1
HS-PS2-1.DCI	2			2
HS-PS2-1.PE	7			7
HS-PS2-1.SEP.HS.4	3			
HS-PS2-2.CC.HS.4b	5			1
HS-PS2-2.DCI	3			2
HS-PS2-2.PE	6			3
HS-PS2-2.SEP.HS.5	5			1
HS-PS2-3.CC.HS.2c	5			
HS-PS2-3.DCI	3	1		2
HS-PS2-3.PE	2	1		4
HS-PS2-3.SEP.HS.6	1			1
HS-PS2-4.CC.HS.1a	4			1
HS-PS2-4.DCI	5			2
HS-PS2-4.PE	6			3
HS-PS2-4.SEP.HS.5	3			1
HS-PS2-5.CC.HS.2a	4			
HS-PS2-5.DCI	5			1
HS-PS2-5.PE	5			3
HS-PS2-5.SEP.HS.3	3			1



HS-PS2-6.CC.HS.6a	2	1		
HS-PS2-6.DCI	2	1		1
HS-PS2-6.PE	3	2	4	2
HS-PS2-6.SEP.HS.8	2			1
HS-PS3-1.CC.HS.4d	3			
HS-PS3-1.DCI	3			1
HS-PS3-1.PE	3			3
HS-PS3-1.SEP.HS.5	2			1
HS-PS3-2.CC.HS.5c	2			2
HS-PS3-2.DCI	3			1
HS-PS3-2.PE	3			3
HS-PS3-2.SEP.HS.2	2			1
HS-PS3-3.CC.HS.5b	3			
HS-PS3-3.DCI	2			2
HS-PS3-3.PE	4	1		2
HS-PS3-3.SEP.HS.6	2			1
HS-PS3-4.CC.HS.4b	3			
HS-PS3-4.DCI	3			1
HS-PS3-4.PE	3	1		
HS-PS3-4.SEP.HS.3	2			1
HS-PS3-5.CC.HS.2b	2			
HS-PS3-5.DCI	2			1
HS-PS3-5.PE	3			1
HS-PS3-5.SEP.HS.2	2			1
HS-PS4-1.CC.HS.2a	3			
HS-PS4-1.DCI	3			
HS-PS4-1.PE	4			4
HS-PS4-1.SEP.HS.5	2			1
HS-PS4-2.CC.HS.7d	2	1		
HS-PS4-2.DCI	2	2		1
HS-PS4-2.PE	2	2		
HS-PS4-2.SEP.HS.1	2	1		
HS-PS4-3.CC.HS.4c	2			1
HS-PS4-3.DCI	3			1
HS-PS4-3.PE	3			3
HS-PS4-3.SEP.HS.7	2			
HS-PS4-4.CC.HS.2b	2			
HS-PS4-4.DCI	2	1		1
HS-PS4-4.PE	3	1		3
HS-PS4-4.SEP.HS.8	2			
HS-PS4-5.CC.HS.7d	2			
HS-PS4-5.DCI	2			1
HS-PS4-5.PE	3	1		2
HS-PS4-5.SEP.HS.8	2			1
<b>Total</b>	<b>190</b>	<b>18</b>	<b>4</b>	<b>81</b>

## High School Earth and Space Science Summary

Total Number of Standards: 19												
Total Reviews: 290												
Keep As Drafted	271	K-12 Administrator		<p>Suggest Changes 7%</p> <p>Keep As Drafted 93%</p>								
		Institution or Higher Education Faculty	73									
		Other Educator (not administrator or higher education)	66									
		Member of Organization	34									
		Parent/Guardian	1									
		Student										
		Other	77									
Suggest Changes	19	K-12 Administrator		<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>3</td> </tr> <tr> <td>Move to a Different Level</td> <td>1</td> </tr> <tr> <td>Rewrite</td> <td>15</td> </tr> </tbody> </table>	Change Suggestions		Remove	3	Move to a Different Level	1	Rewrite	15
		Change Suggestions										
		Remove	3									
		Move to a Different Level	1									
		Rewrite	15									
		Institution or Higher Education Faculty	4									
		Other Educator (not administrator or higher education)	8									
Member of Organization	6											
Parent/Guardian	1											
Student												
Other												

## High School Earth and Space Science Breakdown by Standard

	Agree	Removed	New Level	New Description
HS-ESS1-1.CC.HS.3a	4			
HS-ESS1-1.DCI	4			1
HS-ESS1-1.PE	3			1
HS-ESS1-1.SEP.HS.2	4	1		1
HS-ESS1-2.CC.HS.5c	5			
HS-ESS1-2.DCI	4	1		
HS-ESS1-2.PE	4			1
HS-ESS1-2.SEP.HS.6	4			
HS-ESS1-3.CC.HS.5e	5			
HS-ESS1-3.DCI	5			
HS-ESS1-3.PE	4	1		
HS-ESS1-3.SEP.HS.8	4			1
HS-ESS1-4.CC.HS.3e	5			
HS-ESS1-4.DCI	5			
HS-ESS1-4.PE	4			1
HS-ESS1-4.SEP.HS.5	5			
HS-ESS1-5.CC.HS.1e	4			
HS-ESS1-5.DCI	5		1	
HS-ESS1-5.PE	4			
HS-ESS1-5.SEP.HS.7	4			

HS-ESS1-6.CC.HS.7a	4	
HS-ESS1-6.DCI	4	1
HS-ESS1-6.PE	4	1
HS-ESS1-6.SEP.HS.6	5	
HS-ESS2-1.CC.HS.7b	3	
HS-ESS2-1.DCI	3	
HS-ESS2-1.PE	3	
HS-ESS2-1.SEP.HS.2	3	
HS-ESS2-2.CC.HS.7c	3	
HS-ESS2-2.DCI	3	
HS-ESS2-2.PE	3	
HS-ESS2-2.SEP.HS.4	3	
HS-ESS2-3.CC.HS.5d	3	
HS-ESS2-3.DCI	3	
HS-ESS2-3.PE	3	
HS-ESS2-3.SEP.HS.2	3	
HS-ESS2-4.CC.HS.2a	3	
HS-ESS2-4.DCI	3	
HS-ESS2-4.PE	3	
HS-ESS2-4.SEP.HS.4	3	
HS-ESS2-5.CC.HS.6b	3	
HS-ESS2-5.DCI	3	
HS-ESS2-5.PE	3	
HS-ESS2-5.SEP.HS.3	3	
HS-ESS2-6.CC.HS.5a	3	
HS-ESS2-6.DCI	3	1
HS-ESS2-6.PE	4	
HS-ESS2-6.SEP.HS.2	3	
HS-ESS2-7.CC.HS.7a	2	
HS-ESS2-7.DCI	2	
HS-ESS2-7.PE	2	
HS-ESS2-7.SEP.HS.7	2	
HS-ESS3-1.CC.HS.2a	3	
HS-ESS3-1.DCI	3	
HS-ESS3-1.PE	3	
HS-ESS3-1.SEP.HS.6	3	
HS-ESS3-2.CC.HS.4a	4	
HS-ESS3-2.DCI	6	3
HS-ESS3-2.SEP.HS.6	4	
HS-ESS3-3.CC.HS.7b	4	
HS-ESS3-3.DCI	3	
HS-ESS3-3.PE	4	
HS-ESS3-3.SEP.HS.5	4	
HS-ESS3-4.CC.HS.7c	4	
HS-ESS3-4.DCI	4	
HS-ESS3-4.PE	4	
HS-ESS3-4.SEP.HS.6	4	
HS-ESS3-5.CC.HS.7b	5	
HS-ESS3-5.DCI	5	1

HS-ESS3-5.PE	4			1
HS-ESS3-5.SEP.HS.4	4			
HS-ESS3-6.CC.HS.4b	3			
HS-ESS3-6.DCI	3			1
HS-ESS3-6.PE	3			
HS-ESS3-6.SEP.HS.5	3			
<b>Total</b>	<b>271</b>	<b>3</b>	<b>1</b>	<b>15</b>

## High School Environmental Science Summary

Total Number of Standards: 22												
Total Reviews: 476												
Keep As Drafted	433	K-12 Administrator		<p>Suggest Changes 9%</p> <p>Keep As Drafted 91%</p>								
		Institution or Higher Education Faculty	114									
		Other Educator (not administrator or higher education)	219									
		Member of Organization	25									
		Parent/Guardian										
		Student										
		Other	75									
Suggest Changes	43	K-12 Administrator		<table border="1"> <thead> <tr> <th colspan="2">Change Suggestions</th> </tr> </thead> <tbody> <tr> <td>Remove</td> <td>1</td> </tr> <tr> <td>Move to a Different Level</td> <td>2</td> </tr> <tr> <td>Rewrite</td> <td>40</td> </tr> </tbody> </table>	Change Suggestions		Remove	1	Move to a Different Level	2	Rewrite	40
		Change Suggestions										
		Remove	1									
		Move to a Different Level	2									
		Rewrite	40									
		Institution or Higher Education Faculty	4									
		Other Educator (not administrator or higher education)	23									
Member of Organization	4											
Parent/Guardian	4											
Student												
Other	8											

## High School Environmental Science Breakdown by Standard

Row Labels	Count of Agree	Count of Removed	Count of New Level	Count of New Description
HS-ESS2-2.CC.HS.7c	5			
HS-ESS2-2.DCI	5			1
HS-ESS2-2.PE	7			
HS-ESS2-2.SEP.HS.4	5			
HS-ESS2-4.CC.HS.2a	4			
HS-ESS2-4.DCI	4			
HS-ESS2-4.PE	5			1
HS-ESS2-4.SEP.HS.4	3			
HS-ESS2-5.CC.HS.6b	4		1	
HS-ESS2-5.DCI	3			
HS-ESS2-5.PE	6			1
HS-ESS2-5.SEP.HS.3	4			1
HS-ESS2-6.CC.HS.5a	4			
HS-ESS2-6.DCI	4			
HS-ESS2-6.PE	5			4
HS-ESS2-6.SEP.HS.2	4			
HS-ESS2-7.CC.HS.7a	4			
HS-ESS2-7.DCI	4			
HS-ESS2-7.PE	5		1	1

HS-ESS2-7.SEP.HS.7	4	
HS-ESS3-1.CC.HS.2a	4	
HS-ESS3-1.DCI	4	
HS-ESS3-1.PE	6	
HS-ESS3-1.SEP.HS.6	4	
HS-ESS3-2.CC.HS.2c	4	
HS-ESS3-2.DCI	4	
HS-ESS3-2.PE	6	
HS-ESS3-2.SEP.HS.7	4	
HS-ESS3-3.CC.HS.7b	4	
HS-ESS3-3.DCI	4	
HS-ESS3-3.PE	6	1
HS-ESS3-3.SEP.HS.5	4	
HS-ESS3-4.CC.HS.7c	4	
HS-ESS3-4.DCI	4	2
HS-ESS3-4.PE	7	
HS-ESS3-4.SEP.HS.6	4	
HS-ESS3-6.CC.HS.4b	4	
HS-ESS3-6.DCI	4	1
HS-ESS3-6.PE	5	2
HS-ESS3-6.SEP.HS.5	4	
HS-EVS1-1.CC.HS.4a	6	
HS-EVS1-1.DCI	6	
HS-EVS1-1.PE	7	3
HS-EVS1-1.SEP.HS.4	5	
HS-EVS1-2.CC.HS.4b	6	
HS-EVS1-2.DCI	6	
HS-EVS1-2.PE	8	2
HS-EVS1-2.SEP.HS.8	5	1
HS-EVS1-3.CC.HS.2b	6	
HS-EVS1-3.DCI	7	
HS-EVS1-3.PE	8	3
HS-EVS1-3.SEP.HS.4	6	1
HS-EVS2-1.CC.HS.6a	6	
HS-EVS2-1.DCI	7	1
HS-EVS2-1.PE	8	
HS-EVS2-1.SEP.HS.6	6	
HS-EVS2-2.CC.HS.2b	6	
HS-EVS2-2.DCI	6	1
HS-EVS2-2.PE	7	2
HS-EVS2-2.SEP.HS.2	6	
HS-EVS2-3.CC.HS.2b	6	
HS-EVS2-3.DCI	5	1
HS-EVS2-3.PE	7	
HS-EVS2-3.SEP.HS.2	6	1
HS-EVS2-3.SEP.HS.7	5	1
HS-EVS3-1.CC.HS.5	6	
HS-EVS3-1.DCI	6	
HS-EVS3-1.PE	6	3

HS-EVS3-1.SEP.HS.7	5			1
HS-LS2-1.CC.HS.3a	3			
HS-LS2-1.DCI	4			
HS-LS2-1.PE	4			1
HS-LS2-1.SEP.HS.5	3			
HS-LS2-2.CC.HS.3d	3			
HS-LS2-2.DCI	4			
HS-LS2-2.PE	4			1
HS-LS2-2.SEP.HS.5	3			
HS-LS2-4.CC.HS.5c	3			
HS-LS2-4.DCI	4			
HS-LS2-4.PE	5			
HS-LS2-4.SEP.HS.5	3			
HS-LS2-6.CC.HS.7a	3			
HS-LS2-6.DCI	4			
HS-LS2-6.PE	5			
HS-LS2-6.SEP.HS.7	2			2
HS-LS2-6.SEP.HS.7f	1			
HS-LS2-7.CC.HS.7a	3			
HS-LS2-7.DCI	5			
HS-LS2-7.PE	5			
HS-LS2-7.SEP.HS.6	3			1
<b>Grand Total</b>	<b>433</b>	<b>1</b>	<b>2</b>	<b>40</b>

### Next Steps

Considering this public feedback, the science standards workgroups will reconvene to revise the draft science standards during the week of January 9, 2017. The second draft will be submitted to the science standards committee and discussed at a public meeting on January 25, 2017. If needed, the draft will go back to the workgroup for revisions prior to being considered by the committee on February 13, 2017 for submission for BESE approval in March 2017.