

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
48	Agree	Cont. of above. With so many new teachers (since experienced teachers are leaving in droves), I think we need specific strategies shown as they are currently. Or at least a separate guide to possible strats. should be provided.	K-12 Teacher	Request for supporting documents, not applicable to the glossary.	Support Documents
50	Agree	This is not only helpful to new teachers, teachers moving grade levels but helpful for parents reading the standards.	K-12 Teacher	Not actionable	General Support
55	Agree	Much better than ELA...useful to both educators and noneducators. I think the lack of examples, however, weakens the document. Examples help to clarify things, which is why in ELA, we require support to claims. In math examples serve the same purpose.	K-12 Administrator	Request for supporting documents, not applicable to the glossary.	Examples
56	Agree	Much better than ELA...useful to both educators and noneducators. I think the lack of examples, however, weakens the document. Examples help to clarify things, which is why in ELA, we require support to claims. In math examples serve the same purpose.	K-12 Administrator	Request for supporting documents, not applicable to the glossary.	Examples
57	Agree	Much better than ELA...useful to both educators and noneducators. I think the lack of examples, however, weakens the document. Examples help to clarify things, which is why in ELA, we require support to claims. In math examples serve the same purpose.	K-12 Administrator	Request for supporting documents, not applicable to the glossary.	Examples
70	Agree	The glossary is straightforward.	K-12 Teacher	Not actionable	General Support
71	Agree	This is easily understood and should be of great value if applied within each districts educational plan.	Retired Educator	Not actionable	General Support
72	Agree	This is easily understood and should be of great value if applied within each districts educational plan.	Retired Educator	Not actionable	General Support
80	Agree	Yes for educators but no parent would ever look at it.	K-12 Teacher	Not actionable	Not Actionable
83	Agree	Suitable for intended purpose.	K-12 Teacher	Not actionable	General Support
87	Agree	The prose is coherent.	Other	Not actionable	Not Actionable
88	Agree	The prose is coherent.	Other	Not actionable	Not Actionable
93	Agree	We will need a crosswalk document between the 2010 and 2016 standards to notate what exactly has changed. Is Arizona is now changing the standards and language of the Common Core? Our understanding was that in 2010 the standards were the same with Arizona adding one standard as well as an Explanations and Examples section. However, we now notice changes to language such as in 7.EE.A.2 where the italicized example embedded in the original standard has been eliminated.	Other	Request for supporting documents, not applicable to the glossary.	Support Documents
111	Agree	I did not review the math glossary	Community Member	Not actionable	Not Actionable
122	Agree	For a person who has already been working with the standards, the glossary is easy to understand. Changes to terms are minor and are sensible. Explanations of content within the standards makes sense in practical terms.	K-12 Teacher	Not actionable	General Support
130	Agree	It is simplified and easy to read.	Other	Not actionable	General Support
148	Agree	As an adult, it is easy for me to read. If I was an upper grade teacher it would be fine, but it's not really simplified into kid friendly language. So that all primary teachers are on the same page, a kid friendly glossary would be appreciated.	K-12 Teacher	Glossary includes definitions for all grades K-12	Not Actionable
160	Agree	It would be helpful to have this specific to each grade level. There is a lot of extra information teachers have to go through that does not pertain.	K-12 Teacher	Glossary includes definitions for all grades K-12 and some grade levels share definitions.	Support Documents
177	Agree	It has a good layout and it is easy to read.	K-12 Teacher	Not actionable	General Support
182	Agree	As mentioned before in regards to the READING Draft, while we can't know if every word is defined or if we will use every word listed, what is shown appears complete and accurate.	K-12 Teacher	Not actionable	General Support
183	Agree	The glossary will be helpful while teaching math vocabulary which will prepare students for academic success and state testing.	K-12 Teacher	Not actionable	General Support
243	Agree	Satisfactory	K-12 Parent/Guardian	Not actionable	General Support
252	Agree	Yes it is easy to understand.	K-12 Teacher	Not actionable	General Support

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290	Agree	Just as any movement into the future we must review & revise the tools we work with.	K-12 Parent/Guardian	Not actionable	Not Actionable
294	Agree	I understand this.	K-12 Parent/Guardian	Not actionable	Not Actionable
351	Agree	I am not interested in evaluating the math standards. I don't think the form should require you to do both.	K-12 Teacher	Not actionable	Not Actionable
373	Agree	This glossary helps level the playing the field for experienced math teachers vs newer math teachers. It might be helpful to categorize the glossary into grade level bands. There were too many higher level course vocab words that would not apply to elementary grades.	K-12 Administrator	Glossary includes definitions for all grades K-12 and some grade levels share definitions.	Support Documents
379	Agree	Clear and understandable	K-12 Teacher	Not actionable	General Support
380	Agree	Clear and understandable	K-12 Teacher	Not actionable	General Support
381	Agree	Clear and understandable	K-12 Teacher	Not actionable	General Support
474	Agree	Seemingly does a really good job at defining specific key terms/ideas w/in k-12 math; however, unable to gauge if certain important terms are left out until after a complete year of teaching math curriculum.	K-12 Teacher	Not actionable	Not Actionable
475	Agree	Seemingly does a really good job at defining specific key terms/ideas w/in k-12 math; however, unable to gauge if certain important terms are left out until after a complete year of teaching math curriculum.	K-12 Teacher	Not actionable	Not Actionable
589	Agree	Thorough and easy to understand. Not sure why trapezoid is bold though.	K-12 Administrator	Note should be added to glossary to explain that there are two mathematically accurate definitions for trapezoid, but that this definition will be used for instructional and assessment purposes. Added as a footnote to define trapeziod for Assessment purposes since two viable defintions of trapezoid could be used.	General Support
590	Agree	Looks complete	K-12 Parent/Guardian	Not actionable	General Support
591	Agree	I support them	K-12 Teacher	Not actionable	General Support
596	Agree	Words and definitions are easy to understand.	K-12 Teacher	Not actionable	General Support
599	Agree	It was clear	K-12 Teacher	Not actionable	General Support
600	Agree	It was clear	K-12 Teacher	Not actionable	General Support
601	Agree	Looks sharp!	K-12 Teacher	Not actionable	General Support
609	Agree	Again, I appreciate the clarification on terms that I may not be able to interpret on my own.	K-12 Teacher	Not actionable	General Support
610	Agree	Again, I appreciate the clarification on terms that I may not be able to interpret on my own.	K-12 Teacher	Not actionable	General Support
611	Agree	Again, I appreciate the clarification on terms that I may not be able to interpret on my own.	K-12 Teacher	Not actionable	General Support
617	Agree	The glossary is written well and easy to understand.	K-12 Teacher	Not actionable	General Support
620	Agree	easy to understand	K-12 Teacher	Not actionable	General Support
633	Agree	The glossary makes it easier to understand what the standards are referring to.	K-12 Teacher	Not actionable	General Support
673	Agree	Yes it is complete and easy to understand.	K-12 Teacher	Not actionable	General Support
674	Agree	Clarification of fluency was needed and provides a much clearer guide for what it looks like in student problem solving behavior.	K-12 Teacher	Not actionable	General Support
742	Agree	It would be more useful if only the glossary had words and definitions that pertained to the certain grade level.	K-12 Teacher	To support the learning progression, the glossary spans multiple grade levels.	Grammar/Format

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
744	Agree	helpful for teachers but parents would benefit from pictures	K-12 Teacher	For brevity and succinctness, the glossary only includes textual definitions. Visuals, where appropriate, will be included in a support document.	Grammar/Format
747	Agree	helpful for teachers but parents would benefit from pictures	K-12 Teacher	For brevity and succinctness, the glossary only includes textual definitions. Visuals, where appropriate, will be included in a support document.	Grammar/Format
749	Agree	helpful for teachers but parents would benefit from pictures	K-12 Teacher	For brevity and succinctness, the glossary only includes textual definitions. Visuals,	Grammar/Format
750	Agree	helpful for teachers but parents would benefit from pictures	K-12 Teacher	For brevity and succinctness, the glossary only includes textual definitions. Visuals,	Grammar/Format
822	Agree	It is just easier to understand and use.	K-12 Administrator	General comment. No action required.	General support
823	Agree	It is just easier to understand and use.	K-12 Administrator	General comment. No action required.	General support
825	Agree	There is a glossary. It appears to be easy to read and understand.	K-12 Teacher	General comment. No action required.	General support
829	Agree	I believe it will be a good addition to the standards.	K-12 Teacher	General comment. No action required.	General support
831	Agree	I believe it will be a good addition to the standards.	K-12 Teacher	General comment. No action required.	General support
844	Agree	Again this no different from any of the common core or ccss glossary as it is connected to ccss and common core.	K-12 Teacher	The glossary was created, not revised, for the 2016 revised draft standards through the input of multiple standards workgroup members.	General support
848	Agree	The glossary includes valuable language that will help students as they enter college.	K-12 Teacher	General comment. No action required.	General support
996	Agree	I was able to easily navigate through the Math Glossary.	K-12 Teacher	General comment. No action required.	General support
1027	Agree	Easy to understand.	K-12 Teacher	General comment. No action required.	General support
1040	Agree	The glossary is easy to read.	K-12 Teacher	General comment. No action required.	General support
1046	Agree	It is nice to have all the words identified so that all are identified. Would have liked to have seen the tables and illustrations in the glossary since it references them on the title of the document.	K-12 Teacher	Title will be revised to reflect final elements included in the glossary.	Grammar/Format
1047	Agree	it is nice to have all of the words identified so that all are identified. I would have liked to see the tables and illustrations in the glossary since it references them in the title of the document.	K-12 Teacher	Title will be revised to reflect final elements included in the glossary.	Grammar/Format
1048	Agree	it is nice to have all of the words identified so that all are identified. I would have liked to see the tables and illustrations in the glossary since it references them in the title of the document.	K-12 Teacher	Title will be revised to reflect final elements included in the glossary.	Grammar/Format
1049	Agree	it is nice to have all of the words identified so that all are identified. I would have liked to see the tables and illustrations in the glossary since it references them in the title of the document.	K-12 Teacher	Title will be revised to reflect final elements included in the glossary.	Grammar/Format
1050	Agree	it is nice to have all of the words identified so that all are identified. I would have liked to see the tables and illustrations in the glossary since it references them in the title of the document.	K-12 Teacher	Title will be revised to reflect final elements included in the glossary.	Grammar/Format
1051	Agree	it is nice to have all of the words identified so that all are identified. I would have liked to see the tables and illustrations in the glossary since it references them in the title of the document.	K-12 Teacher	Title will be revised to reflect final elements included in the glossary.	Grammar/Format
1073	Agree	I agree with and would like the committee to approve the new modifications.	K-12 Teacher	General comment. No action required.	General support
1074	Agree	I agree with and would like the committee to approve the new modifications.	K-12 Teacher	General comment. No action required.	General support
1076	Agree	Well done	K-12 Teacher	General comment. No action required.	General support
1084	Agree	It's as good as any. Glossary's are tough. To be truly comprehensive is almost impossible and then not user-friendly because it is too cumbersome. It is easy to understand. Nice job!	K-12 Teacher	General comment. No action required.	General support

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1102	Agree	This is a valuable resource.	K-12 Administrator	General comment. No action required.	
1103	Agree	This is a valuable resource.	K-12 Administrator	General comment. No action required.	
1185	Agree	Most of the definitions for the mathematical terms were easy to understand, however, the definition for distributive property may need a little clarification.	Community Member	Workgroup re-evaluated all the properties	
1207	Agree	The glossary is clear and obvious, based on what you may be looking for.	K-12 Teacher	General comment. No action required.	
1209	Agree	I think the Mathematics Glossary is complete, easy to use and understand.	K-12 Teacher	General comment. No action required.	
1211	Agree	I think the Mathematics Glossary is complete, easy to use and understand.	K-12 Teacher	General comment. No action required.	
1216	Agree	I approve of the revisions of the standards and support what they look like now.	K-12 Teacher	General comment. No action required.	
1217	Agree	I would like to see square root and cube root functions remain in Algebra 1. I'm also concerned about the scattering of probability standards. This goes against the idea of students working in depth on the standard.	K-12 Teacher	The stats progression was examined very closely by all grade levels 7-HS	
1222	Agree	Straight forward explanations, just wish there were examples.	K-12 Teacher	General comment. No action required.	
1264	Agree	Useful for teachers and parents to read.	K-12 Teacher	General comment. No action required.	
1299	Agree	This helps clarify things a bit.	K-12 Parent/Guardian	General comment. No action required.	
1300	Agree	This helps clarify things a bit.	K-12 Parent/Guardian	General comment. No action required.	
1310	Agree	I agree to the extent that the glossary is complete, but believe the examples of the math concepts within the glossary could be more clearly laid out, possibly in a different format. The examples are crunched together with the definition, making the examples not as clearly defined and easy to understand.	K-12 Teacher	Formatting was examined closely by the workgroup	
1343	Agree	This comprehensive glossary will be extremely helpful to teachers as they plan for instruction.	K-12 Teacher	General comment. No action required.	
1471	Agree	Agree, for grades 6-12. I would like to see vocabulary that supports K-5 grades as well.	K-12 Teacher	General comment. No action required.	
1477	Agree	A glossary of math terms is appreciated.	K-12 Teacher	General comment. No action required.	
1480	Agree	I wish there were more visual models included.	K-12 Teacher	These will be included in support documents	
1482	Agree	The glossary seems to focus more on vocabulary found at higher levels of mathematics. I feel like a comprehensive glossary would probably be too large to be a usable document. It might be best if a glossary were broken into elementary and secondary level math.	K-12 Teacher	The workgroup determined that there are too many terms that span various grade levels to break them up	
1492	Agree	Looks good, but I don't see words that are appropriate for elementary age students.	Community Member	The glossary is intended for teachers.	
1502	Agree	I would like to see a more comprehensive glossary of definitions and models.	K-12 Teacher	General comment. No action required.	
1519	Agree	This glossary seems limited in scope to the vocabulary found at higher levels of mathematics.	Community Member	The glossary is intended for teachers.	
1529	Agree	This is a great start. I would like to see more math vocabulary added and possibly broken into grade levels or grade level bands, but this is a useful resource to have.	K-12 Teacher	The workgroup determined that there are too many terms that span various grade levels to break them up	
1541	Agree	Most of the glossary is focused on upper level mathematics. It would be good if there were a version that was also more elementary specific.	Community Member	General comment. No action required.	
1548	Agree	The glossary is helpful for a community member who is an electrical engineer in the private sector. I would like to see a more comprehensive glossary.	Community Member	General comment. No action required.	
1612	Agree	User friendly format and extremely comprehensive.	K-12 Teacher	General comment. No action required.	
1631	Agree	The glossary is easy to read and makes sense.	K-12 Teacher	General comment. No action required.	
1664	Agree	The glossary is easy to understand but I would like to see some examples. So many of the examples were taken out of the standards. This could be a place to put some of the more common examples.	K-12 Teacher	more examples will be included in the support documents	
1670	Agree	Yes, this now makes it easier to understand. All we need is for these standards to be adopted.	K-12 Teacher	General comment. No action required.	

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1691	Agree	While it is not a complete list, the glossary gives some good examples of terms that may have more than one definition and what should be used in the classroom, ie. trapezoid.	K-12 Teacher	General comment. No action required.	
1716	Agree	clear and precise	K-12 Teacher	General comment. No action required.	
1719	Agree	Easy to read but very pact	K-12 Teacher	General comment. No action required.	
1720	Agree	students' friendly	K-12 Teacher	General comment. No action required.	
1721	Agree	It is complete and easy to understand.	K-12 Teacher	General comment. No action required.	
1722	Agree	It is complete and easy to understand.	K-12 Teacher	General comment. No action required.	
1829	Agree	All glossary words are present.	K-12 Teacher	General comment. No action required.	
1830	Agree	All glossary words are present.	K-12 Teacher	General comment. No action required.	
1846	Agree	I like that they are clear and to the point.	K-12 Teacher	General comment. No action required.	
1847	Agree	I like that they are clear and to the point.	K-12 Teacher	General comment. No action required.	
1854	Agree	The glossary seems complete and easy to access.	K-12 Teacher	General comment. No action required.	
1862	Agree	I agree that this is easy to understand.	K-12 Parent/Guardian	General comment. No action required.	
1863	Agree		K-12 Teacher		
1864	Agree	Many terms didn't apply to my grade level but it was easy to read.	K-12 Teacher	General comment. No action required.	
1866	Agree	I think there could be more added to this such as minuend and subtrahend.	K-12 Teacher	General comment. No action required.	
1885	Agree	Short and direct to give definitions and clarificationc.	K-12 Teacher	General comment. No action required.	
1887	Agree	The glossary is comprehensive and easy to understand.	K-12 Teacher	General comment. No action required.	
1935	Agree	Simplistic and easy to navigate.	K-12 Teacher	General comment. No action required.	
1957	Agree	Gives clarity to some content vocabulary as well as teaching vocabulary.	K-12 Administrator	General comment. No action required.	
1958	Agree	Gives clarity to some content vocabulary as well as teaching vocabulary.	K-12 Administrator	General comment. No action required.	
1988	Agree	Very clear and easy to understand.	K-12 Teacher	General comment. No action required.	
2010	Agree	As a teacher it was easy for me to read but again, I am not sure parents will feel the same.	K-12 Teacher	General comment. No action required.	
2035	Agree	we believe that numbers should be used instead of letters to represent problems in the examples in the glossary	K-12 Administrator	General comment. No action required.	
2036	Agree	please add cardinality	K-12 Teacher	General comment. No action required.	
2054	Agree	Fine	K-12 Teacher	General comment. No action required.	
2055	Agree	Fine	K-12 Teacher	General comment. No action required.	
2096	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2097	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2098	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2099	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2100	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2101	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2102	Agree	This needs to be broken down by grade level.	K-12 Teacher	General comment. No action required.	
2131	Agree	1) The definition for "Subtraction" says "The operation of taking the distance between two whole numbers." Why is it just whole numbers?	K-12 Teacher	This definition was corrected	
2237	Agree	This document should be helpful, especially for less experienced teachers.	Other	General comment. No action required.	
2238	Agree	This document should be helpful, especially for less experienced teachers.	Other	General comment. No action required.	
2239	Agree	This document should be helpful, especially for less experienced teachers.	Other	General comment. No action required.	
2240	Agree	This document should be helpful, especially for less experienced teachers.	Other	General comment. No action required.	

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2291	Agree	Easy to read.	Community Member	General comment. No action required.	
2553	Agree	I felt the Math Glossary was easy to understand.	K-12 Teacher	General comment. No action required.	
2560	Agree	It is easy to follow.	K-12 Teacher	General comment. No action required.	
2562	Agree	I am still getting used to it, but from what I can see, it is clear.	K-12 Teacher	General comment. No action required.	
2568	Agree	Clarify the definition for mean absolute deviation and use an asterisk next to the trapezoid definition (if one doesn't read the intro paragraph, the reason it is in bold may be missed)	K-12 Teacher	Absolute deviation is a procedure rather than a term	
2847	Agree	It is straightforward.	K-12 Teacher	General comment. No action required.	
2848	Agree	It is straightforward.	K-12 Teacher	General comment. No action required.	
2869	Agree	Since there is no place to mention Tables 1 and 2, I would like to comment here that it is easy to see they are prescriptive and are filled with examples of how to not what to teach	K-12 Parent/Guardian	General comment. No action required.	
2873	Agree	Yes, clear and easy to understand.	K-12 Administrator	General comment. No action required.	
2898	Agree	Having vocabulary also sorted by grade levels would be helpful.	K-12 Teacher	The workgroup determined that there are too many terms that span various grade levels to break them up	
2899	Agree	Having vocabulary also sorted by grade levels would be helpful.	K-12 Teacher	The workgroup determined that there are too many terms that span various grade levels to break them up	
2908	Agree	Having vocabulary also sorted by grade levels would be helpful.	K-12 Teacher	The workgroup determined that there are too many terms that span various grade levels to break them up	
2909	Agree	Having vocabulary also sorted by grade levels would be helpful.	K-12 Teacher	The workgroup determined that there are too many terms that span various grade levels to break them up	
2993	Agree	Definition of Mean Absolute Deviation should be more precise. Definition of Unit Fraction only needs first phrase (last phrase can be omitted)	K-12 Administrator	Absolute deviation is a procedure rather than a term	
3028	Agree	A lot of information to cover but the committee did a good job identifying all of the terms. could have spent more time explaining "contextualize," "descriptive modeling" and "patterns of association. You may want to consider providing more details and examples to further explain the terms- like for the term "decontextualize."	Other	Many of these items will be included in support documents	
58	Agree		K-12 Teacher		
61	Agree	same as above	Community Member	Not applicable to glossary	
62	Agree	same as above	Community Member	Not applicable to glossary	
63	Agree		K-12 Parent/Guardian		
66	Agree		K-12 Parent/Guardian		
68	Agree		K-12 Teacher		
69	Agree		K-12 Teacher		
73	Agree		K-12 Parent/Guardian		
74	Agree		K-12 Teacher		
76	Agree		Retired Educator		
84	Agree		K-12 Teacher		

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90	Agree		K-12 Teacher		
91	Agree		K-12 Teacher		
94	Agree		K-12 Administrator		
95	Agree		K-12 Teacher		
104	Agree		K-12 Teacher		
114	Agree		K-12 Teacher		
120	Agree		K-12 Teacher		
126	Agree		K-12 Teacher		
127	Agree		Higher Education		
128	Agree		Higher Education		
131	Agree		K-12 Teacher		
143	Agree		K-12 Teacher		
170	Agree		K-12 Administrator		
171	Agree		K-12 Teacher		
172	Agree		K-12 Administrator		
173	Agree		K-12 Administrator		
184	Agree		K-12 Parent/Guardian		
185	Agree		K-12 Teacher		
226	Agree		K-12 Teacher		
227	Agree		Community Member		
228	Agree		K-12 Parent/Guardian		
233	Agree		K-12 Parent/Guardian		
234	Agree		K-12 Parent/Guardian		
235	Agree		K-12 Parent/Guardian		
239	Agree		K-12 Parent/Guardian		
240	Agree		K-12 Parent/Guardian		
244	Agree		K-12 Parent/Guardian		
246	Agree		K-12 Teacher		
247	Agree		K-12 Teacher		
250	Agree		K-12 Teacher		
251	Agree		K-12 Teacher		
254	Agree		K-12 Teacher		
255	Agree		K-12 Teacher		
256	Agree		K-12 Teacher		
257	Agree		K-12 Teacher		
258	Agree		K-12 Teacher		
259	Agree		K-12 Teacher		
260	Agree		K-12 Teacher		

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261	Agree		K-12 Teacher		
262	Agree		K-12 Teacher		
263	Agree		K-12 Teacher		
264	Agree		K-12 Teacher		
265	Agree		K-12 Teacher		
266	Agree		K-12 Teacher		
267	Agree		K-12 Teacher		
268	Agree		K-12 Teacher		
269	Agree		K-12 Teacher		
270	Agree		K-12 Teacher		
271	Agree		K-12 Teacher		
272	Agree		K-12 Administrator		
273	Agree		K-12 Administrator		
274	Agree		K-12 Administrator		
275	Agree	Fine.	K-12 Teacher	Not applicable to glossary	
278	Agree		K-12 Teacher		
296	Agree		K-12 Teacher		
307	Agree		K-12 Parent/Guardian		
346	Agree		K-12 Teacher		
352	Agree		Other		
353	Agree		Other		
355	Agree		K-12 Administrator		
356	Agree		K-12 Teacher		
358	Agree		K-12 Teacher		
359	Agree		K-12 Teacher		
383	Agree		K-12 Parent/Guardian		
385	Agree		K-12 Teacher		
442	Agree		K-12 Teacher		
477	Agree		Business Representative		
498	Agree		K-12 Teacher		
499	Agree		K-12 Teacher		
500	Agree		K-12 Teacher		
603	Agree		K-12 Student		
604	Agree		K-12 Student		
616	Agree		K-12 Teacher		
619	Agree		K-12 Teacher		
624	Agree		K-12 Teacher		
625	Agree		K-12 Teacher		
626	Agree		K-12 Teacher		
630	Agree		K-12 Teacher		
631	Agree		K-12 Teacher		
636	Agree	N/A	K-12 Teacher	Not applicable to glossary	
637	Agree		K-12 Teacher		
638	Agree		K-12 Administrator		

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642	Agree		K-12 Administrator		
643	Agree		K-12 Administrator		
644	Agree		K-12 Administrator		
648	Agree		K-12 Teacher		
649	Agree		K-12 Teacher		
656	Agree	I'm not commenting on the math standards.	K-12 Teacher	Not applicable to glossary	
658	Agree		K-12 Administrator		
662	Agree		K-12 Parent/Guardian		
663	Agree		K-12 Parent/Guardian		
664	Agree		K-12 Teacher		
665	Agree		K-12 Teacher		
675	Agree		K-12 Teacher		
678	Agree		K-12 Parent/Guardian		
686	Agree		K-12 Teacher		
726	Agree		K-12 Teacher		
728	Agree		K-12 Teacher		
820	Agree		K-12 Teacher		
828	Agree		K-12 Teacher		
830	Agree		K-12 Teacher		
842	Agree		K-12 Administrator		
856	Agree		K-12 Administrator		
857	Agree		K-12 Administrator		
859	Agree		K-12 Teacher		
995	Agree		K-12 Teacher		
997	Agree		K-12 Teacher		
999	Agree		K-12 Teacher		
1000	Agree		K-12 Teacher		
1002	Agree		K-12 Teacher		
1003	Agree		K-12 Teacher		
1004	Agree		K-12 Teacher		
1019	Agree		K-12 Teacher		
1020	Agree		K-12 Teacher		
1031	Agree		K-12 Teacher		
1041	Agree		K-12 Teacher		
1052	Agree		K-12 Teacher		
1053	Agree		K-12 Teacher		
1054	Agree		K-12 Teacher		
1064	Agree	this is not my area of expertise ... I choose not to weigh in but the website will not let me simply comment on ELA. Sorry.	K-12 Teacher	Not applicable to glossary	
1065	Agree		K-12 Teacher		
1069	Agree		K-12 Teacher		
1070	Agree		K-12 Teacher		
1077	Agree		K-12 Teacher		
1078	Agree		K-12 Teacher		

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1079	Agree		K-12 Teacher		
1080	Agree		K-12 Teacher		
1085	Agree		K-12 Teacher		
1175	Agree	not area of expertise	K-12 Parent/Guardian	Not applicable to glossary	
1178	Agree		K-12 Teacher		
1206	Agree		K-12 Teacher		
1212	Agree		K-12 Teacher		
1213	Agree		K-12 Teacher		
1214	Agree		K-12 Teacher		
1223	Agree		K-12 Teacher		
1226	Agree	I did not look over the Math standards.	K-12 Teacher	Not applicable to glossary	
1228	Agree		K-12 Teacher		
1229	Agree		K-12 Teacher		
1234	Agree		K-12 Teacher		
1237	Agree		K-12 Teacher		
1240	Agree		K-12 Teacher		
1243	Agree		K-12 Teacher		
1246	Agree		K-12 Teacher		
1251	Agree		K-12 Parent/Guardian		
1266	Agree	See above	K-12 Teacher	Not applicable to glossary	
1270	Agree		K-12 Teacher		
1275	Agree		K-12 Teacher		
1276	Agree		K-12 Teacher		
1291	Agree		K-12 Parent/Guardian		
1297	Agree	did not read, need an N/A choice here	K-12 Parent/Guardian	Not applicable to glossary	
1298	Agree	did not read, need an N/A choice here	K-12 Parent/Guardian	Not applicable to glossary	
1311	Agree		K-12 Teacher		
1370	Agree		Other		
1371	Agree		Other		
1405	Agree		K-12 Teacher		
1461	Agree	Nothing to add.	K-12 Teacher	Not applicable to glossary	
1462	Agree		K-12 Teacher		
1500	Agree		K-12 Parent/Guardian		
1508	Agree		Retired Educator		
1510	Agree		Retired Educator		
1515	Agree		K-12 Parent/Guardian		
1523	Agree		Community Member		

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1528	Agree		K-12 Parent/Guardian		
1535	Agree		Business Representative		
1537	Agree		K-12 Teacher		
1550	Agree		K-12 Teacher		
1557	Agree		K-12 Teacher		
1563	Agree		K-12 Teacher		
1632	Agree		K-12 Teacher		
1658	Agree		K-12 Teacher		
1659	Agree		K-12 Teacher		
1662	Agree		K-12 Teacher		
1663	Agree		K-12 Teacher		
1673	Agree	Same as above	K-12 Teacher	Not applicable to glossary	
1675	Agree		K-12 Teacher		
1676	Agree		K-12 Teacher		
1681	Agree		K-12 Teacher		
1688	Agree		K-12 Teacher		
1689	Agree		K-12 Teacher		
1692	Agree		K-12 Teacher		
1696	Agree		Retired Educator		
1697	Agree		Community Member		
1698	Agree		K-12 Teacher		
1707	Agree		K-12 Teacher		
1711	Agree		K-12 Teacher		
1718	Agree		K-12 Teacher		
1724	Agree		K-12 Parent/Guardian		
1726	Agree		K-12 Teacher		
1784	Agree		K-12 Teacher		
1785	Agree		Community Member		
1796	Agree		K-12 Teacher		
1797	Agree		K-12 Teacher		
1798	Agree		K-12 Teacher		
1799	Agree		K-12 Teacher		
1800	Agree		K-12 Teacher		
1803	Agree		K-12 Teacher		
1804	Agree		K-12 Teacher		
1805	Agree		K-12 Teacher		
1806	Agree		K-12 Teacher		
1807	Agree		K-12 Teacher		
1811	Agree		K-12 Teacher		
1812	Agree		K-12 Teacher		

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1814	Agree		K-12 Teacher		
1821	Agree		K-12 Teacher		
1822	Agree		K-12 Teacher		
1832	Agree		K-12 Teacher		
1833	Agree		K-12 Teacher		
1838	Agree		K-12 Administrator		
1839	Agree		K-12 Administrator		
1873	Agree		K-12 Teacher		
1875	Agree		K-12 Teacher		
1921	Agree		K-12 Teacher		
1981	Agree		K-12 Teacher		
1982	Agree		K-12 Teacher		
1985	Agree	i	K-12 Teacher		
1990	Agree		K-12 Teacher		
1991	Agree		K-12 Teacher		
1994	Agree		K-12 Teacher		
1995	Agree		K-12 Parent/Guardian		
1998	Agree		K-12 Teacher		
1999	Agree		K-12 Teacher		
2000	Agree		K-12 Teacher		
2001	Agree		K-12 Teacher		
2011	Agree		K-12 Teacher		
2056	Agree		K-12 Parent/Guardian		
2060	Agree		K-12 Teacher		
2070	Agree		K-12 Teacher		
2071	Agree		K-12 Teacher		
2089	Agree		K-12 Administrator		
2092	Agree		K-12 Teacher		
2125	Agree		K-12 Teacher		
2127	Agree		Community Member		
2130	Agree		K-12 Teacher		
2132	Agree		K-12 Teacher		
2133	Agree		K-12 Teacher		
2289	Agree		K-12 Teacher		
2442	Agree		K-12 Parent/Guardian		
2454	Agree		K-12 Teacher		
2563	Agree		Other		
2567	Agree		K-12 Teacher		

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
2571	Agree		K-12 Teacher		
2572	Agree		K-12 Teacher		
2577	Agree		K-12 Teacher		
2579	Agree		K-12 Teacher		
2768	Agree		K-12 Teacher		
2814	Agree	I don't teach math, so I don't really have any comment on it.	K-12 Teacher	Not applicable to glossary	
2833	Agree		K-12 Teacher		
2843	Agree		K-12 Parent/Guardian		
2862	Agree		K-12 Parent/Guardian		
2883	Agree		Other		
2961	Agree		K-12 Teacher		
2964	Agree		Elected Official		
3009	Agree		K-12 Parent/Guardian		
121	Disagree	Each person opinion of a statement is different. A glossary should define a word in such that the majority of people have the same opinion. Examples might help this situation.	K-12 Teacher	Some definitions already include examples, without a specific word to consider, comment is not actionable.	Not Actionable
169	Disagree	You should have left the examples with the standards so the average person could see what the standards are asking for.	K-12 Teacher	Request for supporting documents, not applicable to the glossary.	Examples
295	Disagree	These standards are just a renamed, regurgitation of the Common Core Standards (AZ College and Career Standards) we currently have. Go back to the drawing board, and come up with standards AZ wants!! Get rid of all the Explain your answer in K-6. Kids need to master how to do these math operations first, before you can explain it!! If you can't come up with something new go back to the standards prior to C.C.S. and tweak those standards, at least they were more Developmentally Appropriate!!!!	Retired Educator	This is a suggestion regarding standards, not a part of the glossary.	Not Actionable
349	Disagree	For people who have studied math, easy. For the general public and elementary teachers, gibberish for the most part.	K-12 Teacher	Glossary includes definitions for all grades K-12.	General Non-Support
354	Disagree	The mathematics glossary would be better served as an alignment to grade level. It is too much like a dictionary of terms. Students and teachers would be better off with grade level glossaries and examples.	K-12 Teacher	Glossary includes definitions for all grades K-12 and some grade levels share definitions.	Support Documents
594	Disagree	I would like to see more visual illustrations in the glossary.	K-12 Parent/Guardian	Visual illustrations should be added to glossary as appropriate ded in support documents.	Examples
729	Disagree	It would be nice if the glossary can be broken up by grade level.	K-12 Teacher	To support the learning progression, the glossary spans multiple grade levels.	Grammar/Format
881	Disagree	This is a limited glossary of terms and would not help a parent at home for the complete glossary of mathematics terms used in the documents.	K-12 Teacher	Inclusion of words in the glossary was limited to terms not easily accessible and	General non-support
1104	Disagree	Although there is an explanation that it isn't a comprehension list of all mathematical terms I noticed that "trapezoid" is included but there are other shapes that are not included including "quadrilateral" that it mentions in the definition for "trapezoid". It doesn't make sense to me why one shape would be included and not the others (especially common ones).	K-12 Teacher	there are multiple definitions for trapezoid so this was used to clarify	
1290	Disagree	The glossary needs pictures to show the meaning of the words, not just a written definition. For resources, try this website: http://www.amathsdictionaryforkids.com/	K-12 Teacher	many of these will be in support documents aligned to specific grade levels	

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1292	Disagree	The glossary needs pictures to show the meaning of the words, not just a written definition. For resources, try this website: http://www.amathsdictionaryforkids.com/	K-12 Teacher	many of these will be in support documents aligned to specific grade levels	
1307	Disagree	The glossary needs to be specific to the grade level. Teachers found it difficult to look through the entire glossary to find their vocabulary particular to their grade level.	K-12 Teacher	The glossary spans all grades K-12	
1335	Disagree	The following terms should be defined in the context of the standards: quadrilateral,	K-12 Teacher	There is only one definition for quadrilateral and the workgroup determined it was not warranted to put in the glossary	
1773	Disagree	While coherently written, the comprehensiveness is limited (as indicated on page G2). The concern is supporting student accessibility to understand the prompts on the AzMERIT End of Course Tests. Suggestion: as the mathematics standards have been sorted into "grade level" "content areas", sort the glossary into content areas including defining every mathematical term included in the standards if the "grade level" "content area" framework is to be maintained.	K-12 Administrator	The workgroup developed and followed a specific procedure for inclusion of terms.	
1912	Disagree	It's limited. Our teachers and our students deserve a well developed glossary.	K-12 Administrator	The workgroup developed and followed a specific procedure for inclusion of terms.	
1924	Disagree	I think the glossary needs to be grade level specific and not everyone lumped together.	K-12 Teacher		
2038	Disagree	I would prefer to see a glossary that had number values in problems rather than letters. Also, the glossary might be better if it included grade-level words rather than all K-12 in one location.	K-12 Teacher	letters are used for generalizations.	
2135	Disagree	Needs to be more inclusive.	K-12 Teacher	not sure what this is referring to-unactionable	
2136	Disagree	Needs to be more inclusive.	K-12 Teacher	not sure what this is referring to-unactionable	
2137	Disagree	Needs to be more inclusive.	K-12 Teacher	not sure what this is referring to-unactionable	
2941	Disagree	It would be helpful to align the ELA and math glossaries with state or national best practices.	Other	not sure what this is referring to-unactionable	
3005	Disagree	"Somewhat disagree" would be a more appropriate selection.It seems to be incomplete. e.g.,I found "addition" and "subtraction" in the glossary, but not multiplication or division.I do appreciate the clarity of including "exactly" as opposed to "at least" in the trapezoid definition. I also appreciate the clarity of the fraction definition, although variables should always be defined ("a" and "b").Will Tables 1 and 2 (given in the "Introduction" document) be in the glossary?	K-12 Teacher	All tables are now in the glossary	
134	Disagree		K-12 Teacher		
140	Disagree	Did not read.	K-12 Teacher	Not applicable to glossary	
447	Disagree		K-12 Parent/Guardian		
621	Disagree		K-12 Teacher		
632	Disagree		K-12 Teacher		
880	Disagree		K-12 Parent/Guardian		
1232	Disagree		K-12 Parent/Guardian		
1794	Disagree	I did not see a glossary so I cannot agree to the above statement.	K-12 Teacher	Not applicable to glossary	
1903	Disagree	Didn't see it.	K-12 Teacher	Not applicable to glossary	

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1976	Disagree	"The pressure of implementing the standards leads many kindergarten teachers to resort to inappropriate didactic methods combined with frequent testing. Teacher-led instruction in kindergartens has almost entirely replaced the active, play-based, experiential learning that we know children need from decades of research in cognitive and developmental psychology and neuroscience."	Community Member	Not applicable to glossary	
1977	Disagree	"The pressure of implementing the standards leads many kindergarten teachers to resort to inappropriate didactic methods combined with frequent testing. Teacher-led instruction in kindergartens has almost entirely replaced the active, play-based, experiential learning that we know children need from decades of research in cognitive and developmental psychology and neuroscience."	Community Member	Not applicable to glossary	
2104	Disagree		K-12 Teacher		
2105	Disagree		K-12 Teacher		
2106	Disagree		K-12 Teacher		
67	Strongly Agree	Did not read that section but am begging you to dump Common Core math, history and every other subject involving Common Core. That program is dumbing down America.	Community Member	Not actionable	Not Actionable
86	Strongly Agree	I'm glad we got away from that pesky Common Core!	K-12 Teacher	Not actionable	Not Actionable
112	Strongly Agree	Again, it's a great resource and reference tool.	K-12 Teacher	Not actionable	General Support
144	Strongly Agree	The glossary is very comprehensive and will assist in understanding the mathematical vocabulary included within the standards.	K-12 Teacher	Not actionable	General Support
145	Strongly Agree	The glossary is very comprehensive and will assist in understanding the mathematical vocabulary included within the standards.	K-12 Teacher	Not actionable	General Support
146	Strongly Agree	I am not a Math expert, thus I did not read the Standards Glossary. I trust, however, the expertise of my math colleagues, and I anticipate it is an improvement over the 2010 Math Standards.	Other	Not actionable	Not Actionable
147	Strongly Agree	It is a nice addition.	K-12 Parent/Guardian	Not actionable	General Support
187	Strongly Agree	Clear as written.	K-12 Teacher	Not actionable	General Support
189	Strongly Agree	It states key words used and defines them.	K-12 Teacher	Not actionable	General Support
193	Strongly Agree	The glossary is very easy to understand, but I am confused by its purpose. For math, at least, these are general math terms that any qualified math teacher should readily understand (and understand where they fit into the curriculum).	K-12 Teacher	The standards are public documents.	General Support
222	Strongly Agree	Nice to have up front.	K-12 Parent/Guardian	Not actionable	General Support
223	Strongly Agree	The layout of the glossary is very simple to follow; terms are defined with clarity.	Other	Not actionable	General Support
236	Strongly Agree	The glossary is excellent because it helps teachers know exactly what academic vocabulary they should be teaching. Further, the students are enabled to know exactly what they should be learning.	K-12 Teacher	Not actionable	General Support
237	Strongly Agree	The glossary is excellent because it helps teachers know exactly what academic vocabulary they should be teaching. Further, the students are enabled to know exactly what they should be learning.	K-12 Teacher	Not actionable	General Support
238	Strongly Agree	The glossary is excellent because it helps teachers know exactly what academic vocabulary they should be teaching. Further, the students are enabled to know exactly what they should be learning.	K-12 Teacher	Not actionable	General Support
288	Strongly Agree	Well done	K-12 Teacher	Not actionable	General Support
289	Strongly Agree	Well done	K-12 Teacher	Not actionable	General Support
362	Strongly Agree	I appreciate the glossary, I believe it is clear and gives complete explanations of the terms used in the standards.	K-12 Teacher	Not actionable	General Support
367	Strongly Agree	This is a very helpful tool.	K-12 Teacher	Not actionable	General Support
368	Strongly Agree	This is a very helpful tool.	K-12 Teacher	Not actionable	General Support
369	Strongly Agree	This is a very helpful tool.	K-12 Teacher	Not actionable	General Support
370	Strongly Agree	It's straight forward.	K-12 Teacher	Not actionable	General Support
501	Strongly Agree	Short and concise. Well done.	K-12 Teacher	Not actionable	General Support
502	Strongly Agree	I think the standards are useful and manageable and an improvement to my classroom learning environment.	K-12 Teacher	Not actionable	General Support

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
527	Strongly Agree	I think the standards are useful and manageable and an improvement to my classroom learning environment. I support the adoption of these standards	K-12 Teacher	Not actionable	General Support
588	Strongly Agree	Well organized and has all the terms I would expect to see.	K-12 Teacher	Not actionable	General Support
602	Strongly Agree	I think it is more aligned.	K-12 Parent/Guardian	Not actionable	General Support
605	Strongly Agree	The glossary makes it easy to find information.	K-12 Teacher	Not actionable	General Support
612	Strongly Agree	Yes	K-12 Teacher	Not actionable	General Support
613	Strongly Agree	It provides helpful vocabulary so teachers are consistent.	K-12 Teacher	Not actionable	General Support
614	Strongly Agree	Yes the glossary is complete.	K-12 Teacher	Not actionable	General Support
615	Strongly Agree	Yes the glossary is complete.	K-12 Teacher	Not actionable	General Support
645	Strongly Agree	Glossary was easy to understand and follow.	K-12 Teacher	Not actionable	General Support
657	Strongly Agree	While the glossary is not a comprehensive list, it provides clarity and continuity of academic math vocabulary across grade levels and courses. Using consistent vocabulary is extremely beneficial for students as they progress from one grade to the next; this glossary serves as a solid starting place to guide educators in creating coherence of academic vocabulary for students as they engage in the study of mathematics from year to year.	K-12 Teacher	Not actionable	General Support
679	Strongly Agree	Text was labeled as "Glossary" which is helpful to readers with limited amounts of time (easy to identify). Info appears appropriate and helpful for both new and veteran educators.	K-12 Teacher	Not actionable	General Support
681	Strongly Agree	It seems pretty consistent.	K-12 Teacher	Not actionable	General Support
682	Strongly Agree	The glossary is very helpful for quick recall of sixth grade concepts.	K-12 Teacher	Not actionable	General Support
683	Strongly Agree	Very little change to this document.	K-12 Administrator	Not actionable	Not Actionable
684	Strongly Agree	Very little change to this document.	K-12 Administrator	Not actionable	Not Actionable
685	Strongly Agree	Very little change to this document.	K-12 Administrator	Not actionable	Not Actionable
784	Strongly Agree	helpful	K-12 Teacher	General comment. No action required.	General support
786	Strongly Agree	helpful	K-12 Teacher	General comment. No action required.	General support
802	Strongly Agree	The glossary is easily accessible.	K-12 Teacher	General comment. No action required.	General support
1005	Strongly Agree	Adequately explains what can sometimes be confusing about the standard codes and groups.	K-12 Teacher	General comment. No action required.	General support
1059	Strongly Agree	Terms were clearly defined	K-12 Administrator	General comment. No action required.	General support
1061	Strongly Agree	This new simplified version of the glossary has eliminated many unnecessary terminology. Most of the terms are available via Google, making the previous version unnecessary.	K-12 Teacher	General comment. No action required.	General support
1083	Strongly Agree	It is clear.	K-12 Teacher	General comment. No action required.	General support
1092	Strongly Agree	Your glossary did what it was supposed to do.	K-12 Administrator	General comment. No action required.	General support
1093	Strongly Agree	Your glossary did what it was supposed to do.	K-12 Administrator	General comment. No action required.	General support
1210	Strongly Agree	Very useful and easy to understand.	K-12 Teacher	General comment. No action required.	
1215	Strongly Agree	I believe this is helpful and provides for a good reference for educators and students alike to obtain a clearer and deeper understanding for the mathematical terms used	K-12 Teacher	General comment. No action required.	
1233	Strongly Agree	This is great idea	Elected Official	General comment. No action required.	
1247	Strongly Agree	The glossary is clear.	K-12 Teacher	General comment. No action required.	
1272	Strongly Agree	I am satisfied with the proposal	K-12 Administrator	General comment. No action required.	
1303	Strongly Agree	Separate it by grade level.	K-12 Teacher	The glossary is intentionally for grades K-12	
1305	Strongly Agree	Separate it by grade level.	K-12 Teacher	The glossary is intentionally for grades K-12	
1328	Strongly Agree	Necessary terms are defined.	K-12 Teacher	General comment. No action required.	
1329	Strongly Agree	The glossary is more complete-good choice of terms with definitions and fewer.	K-12 Teacher	General comment. No action required.	
1330	Strongly Agree	Necessary terms are defined.	K-12 Teacher	General comment. No action required.	
1331	Strongly Agree	Necessary terms are defined.	K-12 Teacher	General comment. No action required.	
1340	Strongly Agree	Time was obviously spent on this glossary and it looks clear and complete.	K-12 Teacher	General comment. No action required.	

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1341	Strongly Agree	Time was obviously spent on this glossary and it looks clear and complete.	K-12 Teacher	General comment. No action required.	
1342	Strongly Agree	The list was complete and reader friendly. Trapezoid is bolded- why?	K-12 Teacher	There is now a footnote explanation	
1344	Strongly Agree	Seems very complete. Wonder why trapezoid is bolded.	K-12 Teacher	There is now a footnote explanation	
1345	Strongly Agree	Seems very complete. Wonder why trapezoid is bolded.	K-12 Teacher	There is now a footnote explanation	
1346	Strongly Agree	Seems very complete. Wonder why trapezoid is bolded.	K-12 Teacher	There is now a footnote explanation	
1347	Strongly Agree	Seems very complete. Wonder why trapezoid is bolded.	K-12 Teacher	There is now a footnote explanation	
1348	Strongly Agree	Seems very complete. Wonder why trapezoid is bolded.	K-12 Teacher	There is now a footnote explanation	
1349	Strongly Agree	Seems very complete. Wonder why trapezoid is bolded.	K-12 Teacher	There is now a footnote explanation	
1354	Strongly Agree	Concise explanation of key terms.	K-12 Teacher	General comment. No action required.	
1427	Strongly Agree	I am able to understand them.	Community Member	General comment. No action required.	
1452	Strongly Agree	I am so excited for this! I will be able to use this to help support my student at home.	K-12 Parent/Guardian	General comment. No action required.	
1474	Strongly Agree	The vocabulary is appropriate for my child.	K-12 Parent/Guardian	General comment. No action required.	
1495	Strongly Agree	Terms provide a clear definition that is easy to understand.	K-12 Parent/Guardian	General comment. No action required.	
1497	Strongly Agree	The vocabulary is appropriate for the grade levels and is essential to developing background knowledge for students.	K-12 Administrator	General comment. No action required.	
1513	Strongly Agree	The vocabulary is well identified and appropriate - prior to entering college.	Higher Education	General comment. No action required.	
1542	Strongly Agree	It's very helpful to have a glossary to refer to when needed.	K-12 Teacher	General comment. No action required.	
1543	Strongly Agree	It's very helpful to have a glossary to refer to when needed.	K-12 Teacher	General comment. No action required.	
1544	Strongly Agree	It's very helpful to have a glossary to refer to when needed.	K-12 Teacher	General comment. No action required.	
1545	Strongly Agree	It's very helpful to have a glossary to refer to when needed.	K-12 Teacher	General comment. No action required.	
1546	Strongly Agree	It's very helpful to have a glossary to refer to when needed.	K-12 Teacher	General comment. No action required.	
1547	Strongly Agree	It's very helpful to have a glossary to refer to when needed.	K-12 Teacher	General comment. No action required.	
1586	Strongly Agree	I think that the mathematics glossary provides "all" students equal access to the mathematics vocabulary.	K-12 Teacher	General comment. No action required.	
1589	Strongly Agree	I think that the mathematics glossary provides "all" students equal access to the mathematics vocabulary.	K-12 Teacher	General comment. No action required.	
1594	Strongly Agree	Thank you for defining fluency in the glossary.	K-12 Teacher	General comment. No action required.	
1597	Strongly Agree	The description of math fluency is great.	K-12 Teacher	General comment. No action required.	
1649	Strongly Agree	The mathematics glossary both supports the student, as well as the parent when they are helping them at home.	Community Member	General comment. No action required.	
1656	Strongly Agree	easy to read.	K-12 Teacher	General comment. No action required.	
1666	Strongly Agree		Higher Education		
1669	Strongly Agree	The glossary is a great tool. Seems like there are other things that could be in there, e.g. Factor, Histogram, Line graph. Current science for middle school has histogram and line graph, but not scatter plot, that is more appropriate in some applications (position v time graph is not a normal line graph, but usually a scatter plot w/ line of best fit).	K-12 Parent/Guardian	Thank you, the work group re-evaluated all of these.	
1674	Strongly Agree	Thank you for the detail provided regarding fluency. I believe as a math educator that conceptual understanding, problem solving/application and FLUENCY are necessary for students to truly understand mathematics in the world around them. The prior standards left fluency as a vague word but now teachers, parents and students will know exactly what they need to focus on and provide practice to build fluency.	K-12 Teacher	General comment. No action required.	
1683	Strongly Agree	Yes, thank you for this support for teachers.	K-12 Teacher	General comment. No action required.	
1684	Strongly Agree	These proposed standards are acceptable as presented.	K-12 Teacher	General comment. No action required.	

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1685	Strongly Agree	These proposed standards are acceptable as presented.	K-12 Teacher	General comment. No action required.	
1757	Strongly Agree	The 2016 Arizona DRAFT Mathematics Glossary is clear.	K-12 Teacher	General comment. No action required.	
1774	Strongly Agree	straightforward & consistent with expectations of a glossary	K-12 Teacher	General comment. No action required.	
1884	Strongly Agree	Thank you for the clarification to help parents to understand the standards across the grades.	K-12 Teacher	General comment. No action required.	
1891	Strongly Agree	I appreciate the definitions in the glossary.	K-12 Teacher	General comment. No action required.	
1907	Strongly Agree	Well defined and easy to follow.	K-12 Teacher	General comment. No action required.	
1908	Strongly Agree	Excellent, comprehensive.	K-12 Teacher	General comment. No action required.	
1911	Strongly Agree	specific and clear	K-12 Administrator	General comment. No action required.	
1913	Strongly Agree	It is very easy and I appreciate the format.	K-12 Teacher	General comment. No action required.	
1914	Strongly Agree	It is very easy and I appreciate the format.	K-12 Teacher	General comment. No action required.	
1956	Strongly Agree	Very helpful in interpreting the expectations of the standards.	K-12 Teacher	General comment. No action required.	
1964	Strongly Agree	The glossary is needed to provide clear understanding to all stakeholders the definitions. This will help will uniformity across the state. Although it is stated we need to be sure everyone is aware it is not a comprehensive list.	K-12 Administrator	General comment. No action required.	
1943	Strongly Agree	No issues finding any important information. It was informative and made sense.	K-12 Teacher	General comment. No action required.	
1944	Strongly Agree	No issues finding any important information. It was informative and made sense.	K-12 Teacher	General comment. No action required.	
1945	Strongly Agree	It was very complete.	K-12 Teacher	General comment. No action required.	
2003	Strongly Agree	No complaints here.	K-12 Parent/Guardian	General comment. No action required.	
2007	Strongly Agree	A good resource for parents as we need to understand what our kids are doing.	K-12 Parent/Guardian	General comment. No action required.	
2034	Strongly Agree	Glad we have one!	K-12 Teacher	General comment. No action required.	
2039	Strongly Agree	easy to read and quick to access, good format	K-12 Administrator	General comment. No action required.	
2059	Strongly Agree	Easily comprehensible.	K-12 Administrator	General comment. No action required.	
2064	Strongly Agree	Common terminology provides our students with clear understanding of the standards.	K-12 Administrator	General comment. No action required.	
2067	Strongly Agree	The glossary helps anyone understand what terms are.	K-12 Teacher	General comment. No action required.	
2083	Strongly Agree	No changes needed	K-12 Teacher	General comment. No action required.	
2091	Strongly Agree	The definitions of the vocabulary were easy to understand and could be easily followed.	K-12 Teacher	General comment. No action required.	
2094	Strongly Agree	Very helpful and easy to read. I like that it also gives some examples with the definitions	K-12 Teacher	General comment. No action required.	
2103	Strongly Agree	Please break down glossary in grade levels.	K-12 Teacher	General comment. No action required.	
2134	Strongly Agree	I like how the key words in mathematics are defined.	K-12 Teacher	General comment. No action required.	
2524	Strongly Agree	helpful for someone without kids attending school any longer	Community Member	General comment. No action required.	
2698	Strongly Agree	Clearly defines key terms to help educators and parents alike to fully understand specific words within a standard.	K-12 Teacher	General comment. No action required.	
2767	Strongly Agree	Extremely helpful.	K-12 Teacher	General comment. No action required.	
2942	Strongly Agree	Thank you for this! Will an additional, more comprehensive resources be available at a later date? My only disappointment is the change you made to the definition for "trapezoid." The using the "at least one pair of parallel sides" was an incredibly enriching opportunity for deep learning among teachers and students, and a much more popular definition among mathematicians than the one selected for this draft. This is not a deal-breaker to me, but disappointing.	K-12 Administrator	General comment. No action required.	

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
3015	Strongly Agree	This is vey helpful to teaches and parents.	K-12 Parent/Guardian	General comment. No action required.	
3016	Strongly Agree	This is vey helpful to teaches and parents.	K-12 Parent/Guardian	General comment. No action required.	
3020	Strongly Agree	This resource makes the document easy to navigate	Business Representative	General comment. No action required.	
49	Strongly Agree		K-12 Teacher		
54	Strongly Agree		K-12 Teacher		
59	Strongly Agree		Other		
64	Strongly Agree		K-12 Teacher		
65	Strongly Agree		K-12 Parent/Guardian		
75	Strongly Agree		K-12 Parent/Guardian		
89	Strongly Agree		K-12 Teacher		
105	Strongly Agree		K-12 Parent/Guardian		
106	Strongly Agree		Community Member		
107	Strongly Agree		Business Representative		
108	Strongly Agree		K-12 Parent/Guardian		
110	Strongly Agree		Retired Educator		
113	Strongly Agree		K-12 Teacher		
119	Strongly Agree		Community Member		
124	Strongly Agree		Higher Education		
158	Strongly Agree		K-12 Teacher		
168	Strongly Agree		K-12 Teacher		
174	Strongly Agree		Business Representative		
220	Strongly Agree		K-12 Parent/Guardian		
221	Strongly Agree		K-12 Teacher		
225	Strongly Agree		K-12 Teacher		
229	Strongly Agree		Community Member		
230	Strongly Agree		K-12 Parent/Guardian		
249	Strongly Agree		K-12 Teacher		
253	Strongly Agree		K-12 Teacher		
279	Strongly Agree		K-12 Parent/Guardian		
280	Strongly Agree		K-12 Parent/Guardian		

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
281	Strongly Agree	none	K-12 Parent/Guardian	Not applicable to glossary	
284	Strongly Agree		K-12 Parent/Guardian		
285	Strongly Agree		K-12 Parent/Guardian		
291	Strongly Agree		K-12 Parent/Guardian		
292	Strongly Agree		K-12 Parent/Guardian		
293	Strongly Agree		K-12 Teacher		
345	Strongly Agree		K-12 Parent/Guardian		
357	Strongly Agree		K-12 Teacher		
366	Strongly Agree		K-12 Parent/Guardian		
372	Strongly Agree		K-12 Parent/Guardian		
448	Strongly Agree		Elected Official		
472	Strongly Agree		K-12 Parent/Guardian		
473	Strongly Agree		K-12 Teacher		
496	Strongly Agree		K-12 Teacher		
592	Strongly Agree		K-12 Teacher		
606	Strongly Agree		K-12 Teacher		
607	Strongly Agree		K-12 Teacher		
608	Strongly Agree		K-12 Teacher		
622	Strongly Agree		K-12 Teacher		
623	Strongly Agree		K-12 Teacher		
634	Strongly Agree		K-12 Teacher		
635	Strongly Agree		K-12 Teacher		
639	Strongly Agree		K-12 Teacher		
646	Strongly Agree		K-12 Teacher		
647	Strongly Agree		K-12 Teacher		
655	Strongly Agree		K-12 Parent/Guardian		
659	Strongly Agree		K-12 Teacher		
672	Strongly Agree		K-12 Teacher		
799	Strongly Agree		Other		
832	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
833	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
834	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
835	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
836	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
837	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
838	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
839	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
840	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
841	Strongly Agree	Same as ELA.	K-12 Teacher	Not applicable to glossary	
843	Strongly Agree		K-12 Teacher		
1011	Strongly Agree		K-12 Teacher		
1012	Strongly Agree		K-12 Teacher		
1013	Strongly Agree		K-12 Teacher		
1021	Strongly Agree		K-12 Teacher		
1022	Strongly Agree		K-12 Teacher		
1060	Strongly Agree		K-12 Teacher		
1071	Strongly Agree		K-12 Parent/Guardian		
1072	Strongly Agree		K-12 Teacher		
1081	Strongly Agree		K-12 Teacher		
1094	Strongly Agree		Other		
1095	Strongly Agree		K-12 Teacher		
1098	Strongly Agree		Higher Education		
1099	Strongly Agree		K-12 Parent/Guardian		
1100	Strongly Agree		K-12 Parent/Guardian		
1101	Strongly Agree		K-12 Parent/Guardian		
1208	Strongly Agree		K-12 Teacher		
1219	Strongly Agree		K-12 Teacher		
1220	Strongly Agree		K-12 Teacher		
1221	Strongly Agree		K-12 Teacher		
1224	Strongly Agree		K-12 Teacher		
1235	Strongly Agree		K-12 Teacher		
1236	Strongly Agree		K-12 Teacher		
1238	Strongly Agree		K-12 Teacher		
1239	Strongly Agree		K-12 Teacher		
1248	Strongly Agree		K-12 Teacher		
1249	Strongly Agree		K-12 Teacher		
1250	Strongly Agree		K-12 Teacher		
1254	Strongly Agree		K-12 Teacher		
1263	Strongly Agree		K-12 Teacher		
1273	Strongly Agree		K-12 Teacher		
1274	Strongly Agree		K-12 Teacher		
1277	Strongly Agree		Other		
1278	Strongly Agree		Other		
1279	Strongly Agree		Community Member		
1280	Strongly Agree		Community Member		
1281	Strongly Agree		Community Member		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1283	Strongly Agree		K-12 Administrator		
1284	Strongly Agree		K-12 Administrator		
1285	Strongly Agree		K-12 Administrator		
1286	Strongly Agree		K-12 Teacher		
1287	Strongly Agree		K-12 Administrator		
1289	Strongly Agree		K-12 Parent/Guardian		
1301	Strongly Agree		K-12 Teacher		
1302	Strongly Agree		K-12 Teacher		
1306	Strongly Agree		Other		
1314	Strongly Agree		K-12 Teacher		
1315	Strongly Agree		K-12 Teacher		
1316	Strongly Agree		K-12 Teacher		
1317	Strongly Agree		K-12 Teacher		
1318	Strongly Agree		K-12 Teacher		
1324	Strongly Agree		K-12 Teacher		
1338	Strongly Agree		K-12 Teacher		
1351	Strongly Agree		K-12 Teacher		
1352	Strongly Agree		K-12 Teacher		
1353	Strongly Agree		K-12 Teacher		
1357	Strongly Agree		K-12 Teacher		
1358	Strongly Agree		K-12 Teacher		
1366	Strongly Agree		K-12 Teacher		
1379	Strongly Agree		K-12 Parent/Guardian		
1381	Strongly Agree		K-12 Parent/Guardian		
1382	Strongly Agree		K-12 Parent/Guardian		
1383	Strongly Agree		K-12 Parent/Guardian		
1392	Strongly Agree	I have reviewed the new standards. I like them and hope that you adopt them.	K-12 Teacher	Not applicable to glossary	
1393	Strongly Agree		K-12 Teacher		
1394	Strongly Agree		K-12 Teacher		
1397	Strongly Agree		K-12 Teacher		
1398	Strongly Agree		K-12 Teacher		
1418	Strongly Agree		K-12 Teacher		
1419	Strongly Agree		K-12 Teacher		
1420	Strongly Agree		K-12 Teacher		
1431	Strongly Agree		K-12 Teacher		
1443	Strongly Agree		Retired Educator		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1447	Strongly Agree		K-12 Teacher		
1451	Strongly Agree		K-12 Teacher		
1453	Strongly Agree		K-12 Parent/Guardian		
1454	Strongly Agree		K-12 Parent/Guardian		
1455	Strongly Agree		K-12 Parent/Guardian		
1456	Strongly Agree		K-12 Parent/Guardian		
1458	Strongly Agree		K-12 Parent/Guardian		
1459	Strongly Agree		K-12 Teacher		
1460	Strongly Agree		K-12 Parent/Guardian		
1463	Strongly Agree		Retired Educator		
1464	Strongly Agree		Retired Educator		
1466	Strongly Agree		Retired Educator		
1473	Strongly Agree		K-12 Parent/Guardian		
1476	Strongly Agree		K-12 Parent/Guardian		
1478	Strongly Agree		K-12 Parent/Guardian		
1479	Strongly Agree		K-12 Parent/Guardian		
1481	Strongly Agree		K-12 Teacher		
1484	Strongly Agree		K-12 Teacher		
1491	Strongly Agree		K-12 Parent/Guardian		
1494	Strongly Agree		K-12 Parent/Guardian		
1498	Strongly Agree		Community Member		
1499	Strongly Agree		K-12 Teacher		
1503	Strongly Agree		K-12 Parent/Guardian		
1505	Strongly Agree		Community Member		
1507	Strongly Agree		Community Member		
1509	Strongly Agree		Community Member		
1516	Strongly Agree		K-12 Teacher		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1524	Strongly Agree		Community Member		
1525	Strongly Agree		K-12 Teacher		
1531	Strongly Agree		K-12 Parent/Guardian		
1533	Strongly Agree		K-12 Teacher		
1534	Strongly Agree		Community Member		
1540	Strongly Agree		K-12 Teacher		
1552	Strongly Agree		K-12 Parent/Guardian		
1555	Strongly Agree		Media		
1654	Strongly Agree		K-12 Teacher		
1657	Strongly Agree		K-12 Teacher		
1660	Strongly Agree		K-12 Teacher		
1671	Strongly Agree		K-12 Parent/Guardian		
1672	Strongly Agree		K-12 Parent/Guardian		
1678	Strongly Agree		K-12 Student		
1679	Strongly Agree		Other		
1680	Strongly Agree		K-12 Teacher		
1686	Strongly Agree		K-12 Teacher		
1694	Strongly Agree		K-12 Parent/Guardian		
1695	Strongly Agree		K-12 Parent/Guardian		
1700	Strongly Agree		K-12 Teacher		
1701	Strongly Agree		K-12 Teacher		
1703	Strongly Agree		Community Member		
1705	Strongly Agree		K-12 Teacher		
1712	Strongly Agree		K-12 Parent/Guardian		
1723	Strongly Agree		K-12 Teacher		
1725	Strongly Agree		K-12 Teacher		
1729	Strongly Agree		K-12 Teacher		
1730	Strongly Agree		K-12 Teacher		
1733	Strongly Agree		K-12 Parent/Guardian		
1738	Strongly Agree		K-12 Teacher		
1739	Strongly Agree		K-12 Teacher		
1740	Strongly Agree		K-12 Teacher		
1741	Strongly Agree		K-12 Parent/Guardian		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1742	Strongly Agree		K-12 Teacher		
1743	Strongly Agree		K-12 Teacher		
1744	Strongly Agree		K-12 Parent/Guardian		
1745	Strongly Agree		K-12 Teacher		
1746	Strongly Agree		K-12 Parent/Guardian		
1748	Strongly Agree		K-12 Teacher		
1749	Strongly Agree		K-12 Teacher		
1750	Strongly Agree		Community Member		
1751	Strongly Agree		K-12 Teacher		
1752	Strongly Agree		K-12 Teacher		
1753	Strongly Agree		K-12 Parent/Guardian		
1754	Strongly Agree		K-12 Parent/Guardian		
1755	Strongly Agree		K-12 Parent/Guardian		
1758	Strongly Agree		Retired Educator		
1759	Strongly Agree		K-12 Parent/Guardian		
1760	Strongly Agree		K-12 Student		
1761	Strongly Agree		K-12 Student		
1762	Strongly Agree		Retired Educator		
1763	Strongly Agree		K-12 Administrator		
1767	Strongly Agree		K-12 Administrator		
1769	Strongly Agree		K-12 Teacher		
1770	Strongly Agree		K-12 Parent/Guardian		
1771	Strongly Agree		K-12 Student		
1772	Strongly Agree		K-12 Student		
1777	Strongly Agree		K-12 Teacher		
1778	Strongly Agree		K-12 Teacher		
1780	Strongly Agree		K-12 Teacher		
1781	Strongly Agree		K-12 Parent/Guardian		
1782	Strongly Agree		K-12 Teacher		
1783	Strongly Agree		K-12 Parent/Guardian		
1787	Strongly Agree		Community Member		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1789	Strongly Agree		Community Member		
1791	Strongly Agree		Community Member		
1813	Strongly Agree		K-12 Teacher		
1817	Strongly Agree		K-12 Teacher		
1818	Strongly Agree		K-12 Teacher		
1834	Strongly Agree		K-12 Teacher		
1851	Strongly Agree		K-12 Teacher		
1852	Strongly Agree		K-12 Teacher		
1859	Strongly Agree		K-12 Teacher		
1874	Strongly Agree		K-12 Teacher		
1892	Strongly Agree		K-12 Teacher		
1893	Strongly Agree		K-12 Parent/Guardian		
1901	Strongly Agree	I really like the new standards.	K-12 Teacher	Not applicable to glossary	
1902	Strongly Agree	I really like the new standards.	K-12 Teacher	Not applicable to glossary	
1906	Strongly Agree		K-12 Teacher		
1909	Strongly Agree		K-12 Teacher		
1916	Strongly Agree		K-12 Teacher		
1917	Strongly Agree		K-12 Teacher		
1936	Strongly Agree		K-12 Parent/Guardian		
1937	Strongly Agree		K-12 Parent/Guardian		
1938	Strongly Agree		K-12 Parent/Guardian		
1939	Strongly Agree		Other		
1940	Strongly Agree		Community Member		
1941	Strongly Agree		Community Member		
1942	Strongly Agree		K-12 Teacher		
1949	Strongly Agree		K-12 Teacher		
1950	Strongly Agree		K-12 Teacher		
1951	Strongly Agree		K-12 Teacher		
1952	Strongly Agree		K-12 Teacher		
1953	Strongly Agree		K-12 Teacher		
1954	Strongly Agree		K-12 Teacher		
1955	Strongly Agree		K-12 Teacher		
1978	Strongly Agree		K-12 Teacher		
1979	Strongly Agree		K-12 Teacher		
1980	Strongly Agree		K-12 Teacher		
2008	Strongly Agree		K-12 Parent/Guardian		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
2009	Strongly Agree		K-12 Parent/Guardian		
2053	Strongly Agree		K-12 Teacher		
2057	Strongly Agree		K-12 Teacher		
2065	Strongly Agree		K-12 Administrator		
2068	Strongly Agree		K-12 Teacher		
2087	Strongly Agree		K-12 Teacher		
2088	Strongly Agree		Higher Education		
2090	Strongly Agree		K-12 Teacher		
2095	Strongly Agree		K-12 Teacher		
2107	Strongly Agree		K-12 Teacher		
2109	Strongly Agree		K-12 Teacher		
2118	Strongly Agree		K-12 Teacher		
2126	Strongly Agree		K-12 Teacher		
2223	Strongly Agree		K-12 Teacher		
2235	Strongly Agree		Community Member		
2236	Strongly Agree		Community Member		
2283	Strongly Agree		Community Member		
2284	Strongly Agree		K-12 Teacher		
2285	Strongly Agree		Community Member		
2286	Strongly Agree		K-12 Teacher		
2287	Strongly Agree		Community Member		
2288	Strongly Agree		Community Member		
2417	Strongly Agree		K-12 Teacher		
2433	Strongly Agree		Community Member		
2437	Strongly Agree		K-12 Teacher		
2440	Strongly Agree		Community Member		
2441	Strongly Agree		Higher Education		
2443	Strongly Agree		K-12 Teacher		
2492	Strongly Agree	I did not see the math glossary.	K-12 Teacher	Not applicable to glossary	
2516	Strongly Agree	Ditto	K-12 Parent/Guardian	Not applicable to glossary	
2520	Strongly Agree	same comment as for the English Language Arts glossary	Community Member	Not applicable to glossary	
2525	Strongly Agree		Retired Educator		
2526	Strongly Agree		Retired Educator		

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
2528	Strongly Agree		K-12 Parent/Guardian		
2530	Strongly Agree		Retired Educator		
2551	Strongly Agree		Retired Educator		
2552	Strongly Agree		Community Member		
2554	Strongly Agree		K-12 Parent/Guardian		
2555	Strongly Agree		K-12 Parent/Guardian		
2578	Strongly Agree		K-12 Teacher		
2580	Strongly Agree		K-12 Teacher		
2581	Strongly Agree		K-12 Teacher		
2731	Strongly Agree		K-12 Teacher		
2769	Strongly Agree		K-12 Teacher		
2812	Strongly Agree		Retired Educator		
2813	Strongly Agree		K-12 Parent/Guardian		
2835	Strongly Agree		K-12 Teacher		
2846	Strongly Agree		K-12 Teacher		
2853	Strongly Agree		K-12 Teacher		
2855	Strongly Agree		K-12 Teacher		
2901	Strongly Agree		Elected Official		
3017	Strongly Agree		K-12 Parent/Guardian		
1023	Strongly Disagree	Red lines?	K-12 Parent/Guardian	General comment. No action required.	Not actionable
1699	Strongly Disagree	This glossary is woefully inadequate. An important mathematical practice is to use precision - not only in solving math problems accurately, but also in speaking about math. Neglecting to include a more comprehensive range of math vocabulary is a disservice to students and teachers alike. I realize that you have provided the caveat that this is an incomplete list. My suggestion is to fix the problem and make it more complete.	K-12 Administrator	The workgroup developed and followed a specific procedure for inclusion of terms.	
1989	Strongly Disagree	Developing a glossary to explain commonly used math terms easily found in a dictionary is a waste of government resources, i.e. taxpayer funds, which I resent.	K-12 Parent/Guardian	General comment. No action required.	
2002	Strongly Disagree	Glossary. Ugg	K-12 Parent/Guardian	General comment. No action required.	
2766	Strongly Disagree	I was forced to select a value even though I did not want to answer this question. There should be a N/A option. Please see my answer to "This 2016 Arizona DRAFT of the English Language Arts Standards is an improvement compared to Arizona's current standards (2010)."	Retired Educator	General comment. No action required.	
82	Strongly Disagree		K-12 Teacher		
640	Strongly Disagree	ditto	K-12 Teacher	Not applicable to glossary	
641	Strongly Disagree	I don't want to review these; not my area of expertise.	K-12 Administrator	Not applicable to glossary	
1259	Strongly Disagree	Not applicable	K-12 Teacher	Not applicable to glossary	
1260	Strongly Disagree	Not applicable	K-12 Teacher	Not applicable to glossary	
1262	Strongly Disagree	Not applicable	K-12 Teacher	Not applicable to glossary	

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SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
1702	Strongly Disagree		Higher Education		
2292	Strongly Disagree		K-12 Parent/Guardian		
2582	Strongly Disagree		K-12 Parent/Guardian		
2815	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2816	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2817	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2818	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2819	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2820	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2821	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2822	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2823	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2824	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2825	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2826	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2827	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2828	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2829	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2830	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2831	Strongly Disagree	I did not come across the glossary.	Retired Educator	Not applicable to glossary	
2914	Strongly Disagree		K-12 Parent/Guardian		

Mathematics Public Feedback on the Draft Glossary

SID Number	Glossary Scale	Glossary Comment	Role	Refinement Note	Category/ Theme
TR		<p>Achieve: In addition to the issues of clarity in the draft standards, there are numerous issues of clarity in the Glossary. The entries in the Glossary are important as they serve to define specific terms that may be often misunderstood. Arizona should review the entire Glossary to ensure that the appropriate terms are included and that each entry is mathematically precise. Each entry should be consistent with other entries, as well as with the terms used in the standards.</p> <p>It is not clear why certain terms were included or excluded in the Glossary. Terms such as empirical rule, found nowhere in the standards, and positive association, which was deleted from the standards, may be removed from the glossary. There is a definition for irrational number yet none for rational number. Beyond these, there are many other glossary issues that need attention. These include:</p> <ul style="list-style-type: none"> ● The terms quantity, amount, value, and size are used in the glossary yet not clearly defined. Are they the same? If not, how are they different? The entry for ratio, for example, includes the words quantity, amount, and size implying a difference between these terms. ● The definition for addition implies that the result is actually more than one quantity. ● The associative property is a property of operations; it is not an action of “changing.” The glossary elsewhere defines properties of operations as principles, for example. ● The definition for complex fractions does not need the example. Consider that the first mention of complex fractions is in Grade 7 and this example is beyond that level. ● The entry for descriptive modeling tells what it does, but not what it is. “Describes the phenomena” is far too general. ● The entry for equation should be reconsidered. It seems potentially confusing to use “divided by” in this definition. This entry also is vague in the use of the “two values” – which two values are intended? ● Why does the entry for expression use the word “certain?” ● The definition of focus is problematic as it is inconsistent with the use of the term in an ellipse or hyperbola. The entry simply describes the center of a circle or sphere. ● Why not simply use the definition of function as given in 8.F.A.1? To say a function is “a rule that assigns to each input exactly one output” matches the standard, is more concise, and clarifies the assignment of the input to the output. 		<p>All Technical Review comments were taken into consideration during final revisions.</p> <p>Achieve provided detailed revisions that can be found in their technical review document. Achieve provided, as did Carlson, very specific feedback on individual glossary terms and definitions. Most final edits reflect the technical review comments as direction for the editions that were made.</p> <p>Please see additional handout for the complete Technical Review comments on Glossary.</p>	

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		<p>Achieve - ● The entry for interquartile range is ambiguous.</p> <ul style="list-style-type: none"> ● Mathematical argument is defined through sound reasoning. Reasoning (mathematical) is defined through mathematical arguments. The definitions are nearly the same except for this bit of circularity. What do these terms really mean? ● The entry for mean absolute deviation is too general and lacks defining the actual measure. It is problematic to say this is a “simplified measure” when there is no other measure for comparison. ● It would be more precise to say rectilinear polygon rather than rectilinear figure given that the entry focuses only on polygons. ● Representation is presented as a verb. It is never a verb. ● A scale factor is a number, not a ratio. ● Subtraction is defined as an operation, but addition is not. ● A translation works with a figure yet a rotation works with an object or coordinate system. This is inconsistent. ● For zeros of a function it is not clear if the “points” are locations on a graph or inputs that lead to an output of zero. The language should be precise. “Roots” (of this sort) and “solutions for a function” are not found in the standards. ● Trapezoid is defined here as a quadrilateral with exactly one pair of parallel sides. This is known as the exclusive definition. The inclusive definition, in contrast, defines a trapezoid to be a quadrilateral with at least one pair of parallel sides. The Progressions Documents helps to clarify this issue (http://commoncoretools.me/wp-content/uploads/2014/12/ccss_progression_gk6_2014_12_27.pdf, p.3): <p>Note that in the U.S., that the term “trapezoid” may have two different meanings. In their study <i>The Classification of Quadrilaterals</i> (Information Age Publishing, 2008), Usiskin et al. call these the exclusive and inclusive definitions: T(E): a trapezoid is a quadrilateral with exactly one pair of parallel sides. T(I): a trapezoid is a quadrilateral with at least one pair of parallel sides.</p> <p>These different meanings result in different classifications at the analytic level. According to T(E), a parallelogram is not a trapezoid; according to T(I), a parallelogram is a trapezoid.</p> <p>Both definitions are legitimate. However, Usiskin et al. conclude, “The preponderance of advantages to the inclusive definition of trapezoid has caused all the articles we could find on the subject, and most college-bound geometry books, to favor the inclusive definition.”</p> <p>In addition to the above issues indicating a lack of clarity, Arizona might also consider the opportunity to add clarity based on research. Recent research from Pat Thompson and Marilyn Carlson, mathematics faculty at Arizona State University, has served to increase knowledge of how students think about functions. There is now clear evidence that the development of covariational reasoning is foundational to having a profound understanding of functions. Covariational reasoning, while not contradicted in the ADSSM and CCSS, is not explicit in either set of standards. Arizona State University Professors Pat Thompson and Marilyn Carlson have summarized the research on covariation and explained how it fits with the CCSS. They</p>			

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TR		<p>Carlson: The basic structure of the glossary is fine, and most of the definitions are quite acceptable. The following notes are suggestions for changes, additions, or questions about the items included, many of which refer to transformations in Geometry, an area that is especially important to “get right” considering the standards are calling for some fundamental shifts to how key ideas are defined and leveraged in the course.</p> <ol style="list-style-type: none"> 1. “Quantities” and “quantitative reasoning” are mentioned numerous times throughout the standards, and these terms connect to a rich area of research into teaching and learning within mathematics education and have specific meanings and implications for teaching and learning. However, the terms are never truly defined in a satisfactory way (including examples) considering the important role they play in the standards and the coherence quantitative reasoning provides to grade school mathematics. In addition to expanding a discussion about the meanings of these terms elsewhere, they certainly deserve a place in the glossary. It seems that the definition of “quantitative reasoning” is taken as a given, but my research group’s extensive work with secondary teachers we find that few, if any, understand “quantitative reasoning” in a way that helps them develop materials and plan and implement instruction relative to this idea. 2. “Similarity transformation” is included but not “congruency transformation”. In addition, considering how the definition of congruence and similarity (defined relative to transformations) differs from many teachers’ background experiences, these terms should both be included in the glossary. 3. In “Rigid Motion” it should also be noted that such transformations map points to points, lines to lines, line segments to line segments, rays to rays, angles to angles, (etc.).” Understanding this property is key to leveraging transformations rigorously to prove theorems. For example, justifying the vertical angle theorems using transformations requires that one knows that a 180 degree rotation through any point on the line carries the line back onto itself. By giving a more complete definition of rigid motion it makes it more clear about what transformations would count as a rigid motions (and why others would not) as well as provides a more rigorous and mathematically sound foundation for using transformations in meaningful ways to prove theorems. 4. Reflection should be included (since all of the other transformations are included, and reflection in particular can benefit from a clear definition that describes how the image and preimage relate to the line of reflection. 		<p>All Technical Review comments were taken into consideration during final revisions.</p> <p>Achieve provided detailed revisions that can be found in their technical review document. Achieve provided, as did Carlson, very specific feedback on individual glossary terms and definitions. Most final edits reflect the technical review comments as direction for the editions that were made.</p>	
		<p>Carlson - 5. In defining transformations, you sometimes say that the transformation impacts all points on a figure, other times that it affects all points on a coordinate system. Transformations should be generally considered a transformations of a plane (regardless of whether one has imposed a coordinate system on the plane) and this should be consistent across definitions of the transformations.</p>			
TR		<p>Milgram: No glossary comments found</p>			
TR		<p>Milner: The glossary is not good. It almost always violates the criteria allegedly used to decide what terms to include in it. It is missing essential terms (e.g. imaginary number), contains mathematical and English language errors, equivocal and circular “definitions”. It really needs a lot of additional work. Many essential terms are missing, such as imaginary number, abscissa, ordinate,</p>		<p>Edits were made to the grammar and inclusion of specific terms suggested in feedback by the Technical Reviews.</p>	
TR		<p>Abercrombie: The glossary is helpful and clear. Relevant definitions were included, and each definition was very clear. The examples, where provided, were illustrative. The only thing that I would change is to simply call this “Glossary” instead of “Glossary: Mathematical Terms, Tables & Illustrations”, or to eliminate the reference to tables, since there aren’t really any tables included in this section.</p>		<p>The name of the Glossary was changed to reflect the final inclusion of tables.</p>	
TR		<p>Wurman: No introduction comments found</p>			

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TR		<p>Pope: A. In terms of terminology the glossary seems quite comprehensive and provides definitions of some of the mathematical terms referenced in the standards as well as qualitative terms used to describe student performance such as “fluency”. At the beginning of the glossary of terms is a note that states that a term that is in bold in the glossary will be the acceptable definition for assessment but the only term included in the glossary that is in bold is “trapezoid”. Is this correct? Is this the only term which this note applies to? If so it would make more sense to include this as a note or a footnote on that individual term to ensure that it is seen/read. The glossary is also titled “Mathematics Terms, Tables & Illustrations” but there are no tables or illustrations (beyond examples of common equations included as part of the definition for various terms) included. As mentioned in the review of the introduction it would make sense to include the Problem Type/Situation tables (Tables 1 and 2) and the table that outlines the progression of fluency across grade levels (Table 3) in the glossary for quick reference. In addition, if no illustrations beyond those that are part of a definition are going to be included in the glossary that should be omitted from the title to avoid confusion.</p>		<p>It is correct that the only term that needed to be clarified for Assessment purposes was trapezoid since there are two accepted definitions. This is the only term the note applies to. Suggestion to move this note to the footnote has been implemented in the final draft of the glossary.</p> <p>The name of the glossary has been changed/updated to reflect the final inclusion of tables.</p> <p>Table 1,2,3 have been included in the glossary.</p> <p>Illustrations have been omitted from the Glossary title.</p>	
TR		<p>Pope: B. Definitions provided in the glossary are succinct and provide practitioners with basic information needed to understand and implement important aspects of the Mathematics standards. The definitions for “contextualize” and “decontextualize” may need to include examples. If a practitioner needs to refer to the glossary for a definition of what either “contextualize” or “decontextualize” means, they are likely wondering what constitutes a “context”. The definitions “to place (as a word or activity) in a context” and “to remove from a context” are likely not going to be very helpful. Providing an example of what “a context” may be would likely be a more helpful and complete these definitions. The rest of the definitions of mathematical terms are clear and provide the basic information a practitioner may need to understand some of the terminology used in the standards. Including the definitions of more subjective terms referenced in the standards, such as “fluency” and “mathematical reasoning” will also likely be very helpful practitioners. These are terms that are frequently used in education but often have different meanings. Including the definition for what these terms mean in the Arizona Mathematics Standards will help ensure consistent expectations and implementation across the state.</p> <p>C. As mentioned above including the Tables 1-3 from the introduction in the glossary would be helpful and a logical place for practitioners to be able to find them for quick/easy reference.</p>		<p>Examples of contextualize and decontextualize will be included in support documents developed after the standards have been finalized and adopted.</p>	
186		Seems clear	K-12 Administrator	Not actionable	General Support
282		Can we see red line version	K-12 Administrator	Red line version was made available during the public comment in fall 2016.	Not Actionable
406		The math glossary is complete and comprehensible.	K-12 Administrator	Not actionable	General Support
595		Did not review.	K-12 Teacher	Not actionable	Not Actionable
618		It helps new teachers follow and understand the standards. The glossary also helps teachers have a common language to help with transient students. It helps students because they do not have to learn new vocabulary when they move to a new school.	K-12 Teacher	Not actionable	General Support
845		Again, the glossary is neither complete nor terribly useful. For example, why do we have a definition of 'rectilinear figure' that extends beyond telling the reader that it is a fancy word for rectangle, but we do not have a definition for 'circular figure'.	K-12 Administrator	The inclusion of recti-linear was necessary to expand understanding of figures beyond rectangles with common properties.	Content specific
1045		Please stop wasting everyone's time revising standards. This is a waste of money and resources that could be spent actually solving problems in education. Hint: it's not the standards that are holding our kids back. There is way too much administration at district and state levels sapping money away from the schools, and these advisory boards and revisions are another symptom of that bloat.	K-12 Teacher	General comment. No action required.	Not actionable
1265		Complete and in language that is easy to understand.	K-12 Teacher		
1963			K-12 Teacher		

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2870		No opinion.	Other		
2998		see input earlier today	K-12 Parent/Guardian		
3001		These guide lines are hard to understand and don't seam age appropriate and are not letting the teachers really teach not every did learns the same way	K-12 Parent/Guardian	not sure of the intent of this comment.	
60			K-12 Teacher		
78			K-12 Teacher		
81			K-12 Teacher		
85			K-12 Teacher		
92			K-12 Teacher		
100			K-12 Teacher		
115			K-12 Teacher		
116			K-12 Teacher		
129			Other		
159			K-12 Teacher		
194			K-12 Teacher		
218			K-12 Teacher		
219			K-12 Teacher		
190			K-12 Teacher		
191			K-12 Teacher		
241			Community Member		
242			Other		
276			Retired Educator		
277			Retired Educator		
283			K-12 Teacher		
286			K-12 Teacher		
287			K-12 Teacher		
308			K-12 Teacher		
341			Higher Education		
342			Higher Education		
343			Higher Education		
344			Higher Education		
350			K-12 Teacher		
360			K-12 Teacher		
361			K-12 Teacher		
363			K-12 Teacher		
364			K-12 Teacher		
365			K-12 Teacher		
371			K-12 Student		
375			K-12 Teacher		
376			K-12 Teacher		
377			K-12 Teacher		
378			K-12 Teacher		
382			K-12 Teacher		
384			K-12 Teacher		
390			K-12 Teacher		

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393			K-12 Teacher		
403			K-12 Teacher		
407		N/A	K-12 Teacher	Not applicable to glossary	
408			K-12 Teacher		
409			K-12 Teacher		
443			K-12 Teacher		
444			K-12 Teacher		
445			Other		
446			Other		
449			K-12 Teacher		
450			K-12 Teacher		
451			K-12 Teacher		
476			Higher Education		
495			K-12 Parent/Guardian		
497			K-12 Teacher		
597			K-12 Teacher		
598			K-12 Teacher		
627			K-12 Teacher		
628			K-12 Teacher		
629			K-12 Teacher		
653			K-12 Teacher		
654			Other		
660			K-12 Teacher		
666			Other		
667			K-12 Parent/Guardian		
668			Elected Official		
669			Elected Official		
670			Elected Official		
671			Elected Official		
680			Business Representative		
781			K-12 Teacher		
782			K-12 Teacher		
821			Other		
827			Other		
858		I did not review these standards.	K-12 Teacher	Not applicable to glossary	
882			Community Member		
883			K-12 Parent/Guardian		
900			Other		
915			Elected Official		
932			K-12 Administrator		
940			K-12 Administrator		
964			K-12 Teacher		

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980			K-12 Administrator		
981			K-12 Administrator		
982			K-12 Teacher		
983			K-12 Teacher		
984			K-12 Teacher		
987			K-12 Teacher		
990			K-12 Administrator		
991			K-12 Teacher		
992			K-12 Administrator		
993			Retired Educator		
994			Community Member		
998			K-12 Administrator		
1024			K-12 Teacher		
1039			K-12 Teacher		
1042			K-12 Teacher		
1055		Didn't read it. I teach high school English, and I have no familiarity or professional interest in the math standards.	K-12 Teacher	Not applicable to glossary	
1056		Didn't read it. I teach high school English, and I have no familiarity or professional interest in the math standards.	K-12 Teacher	Not applicable to glossary	
1057		Didn't read it. I teach high school English, and I have no familiarity or professional interest in the math standards.	K-12 Teacher	Not applicable to glossary	
1058			K-12 Teacher		
1062			K-12 Teacher		
1063			Business Representative		
1075			K-12 Teacher		
1082			K-12 Teacher		
1096			K-12 Teacher		
1097			K-12 Teacher		
1218			K-12 Parent/Guardian		
1225			K-12 Teacher		
1227			K-12 Administrator		
1230			K-12 Teacher		
1231			K-12 Teacher		
1241			Retired Educator		
1242			Retired Educator		
1245			K-12 Teacher		
1256		I do not teach this subject.	K-12 Teacher	Not applicable to glossary	
1257		I do not teach this subject.	K-12 Teacher	Not applicable to glossary	
1261		N/A	K-12 Teacher	Not applicable to glossary	
1271			Community Member		
1282			K-12 Teacher		
1293			K-12 Parent/Guardian		
1530			K-12 Teacher		

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1554			K-12 Teacher		
1556			K-12 Teacher		
1687			K-12 Teacher		
1690			K-12 Teacher		
1704			K-12 Parent/Guardian		
1706			K-12 Parent/Guardian		
1708			K-12 Teacher		
1727			K-12 Teacher		
1728			K-12 Teacher		
1747		These standards are rigorous and students are very prepared for the higher level math.	K-12 Teacher	Not applicable to glossary	
1776			K-12 Teacher		
1850			K-12 Teacher		
1910			K-12 Teacher		
1918			K-12 Teacher		
1923		I have not yet examined the math glossary.	K-12 Teacher	Not applicable to glossary	
1948			K-12 Teacher		
1971		This does not apply to me.	K-12 Teacher	Not applicable to glossary	
1972		Not applicable	K-12 Teacher	Not applicable to glossary	
1973			K-12 Teacher		
1974			K-12 Teacher		
1975			K-12 Teacher		
1983			K-12 Teacher		
2012			K-12 Parent/Guardian		
2058			K-12 Teacher		
2066			K-12 Teacher		
2069			K-12 Teacher		
2093			K-12 Teacher		
2108			K-12 Teacher		
2115			K-12 Teacher		
2119			K-12 Teacher		
2150			K-12 Teacher		
2151			K-12 Teacher		
2165			K-12 Teacher		
2167			K-12 Teacher		
2380			K-12 Parent/Guardian		
2382			K-12 Teacher		
2383			K-12 Parent/Guardian		
2424			K-12 Teacher		
2426			K-12 Teacher		
2427			K-12 Teacher		

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2493			K-12 Parent/Guardian		
2540			Community Member		
2541			Community Member		
2556			Elected Official		
2557			Community Member		
2558			Community Member		
2559			Community Member		
2573			K-12 Administrator		
2574			K-12 Teacher		
2575			K-12 Teacher		
2663			K-12 Teacher		
2701			K-12 Teacher		
2834			K-12 Teacher		
2881			K-12 Teacher		
2900			K-12 Parent/Guardian		
2911			K-12 Parent/Guardian		
2916			K-12 Parent/Guardian		
2962			K-12 Teacher		
2963			K-12 Teacher		
2988			K-12 Parent/Guardian		
2989			K-12 Parent/Guardian		
2991			K-12 Parent/Guardian		