

MEMORANDUM

TO: Members, Utah State Board of Education

FROM: Rich Nye, Interim Deputy Superintendent
Jo Ellen Shaeffer, Educational Director

DATE: April 14-15, 2016

ACTION: SAGE Additional Item Development

Background: Summative adaptive assessments require approximately 450 items per grade and content for a robust assessment system that contains enough items that are spread across all standards, difficulty, and depth of knowledge (DOK). In addition, an interim, module, or benchmarking adaptive assessments require 350 items per grade and content for a strong system for a total for 800 items for both systems. While Utah has been working with the current vendor to develop items, more development is still needed to complete a well-rounded Utah owned item bank. It is anticipated that 100 items per grade level, on average need to be developed in the next 6-8 months that could be field tested in the spring of 2017 for future use in both summative and interim banks. With the adoption of the new science standards, additional item development is needed.

It is acknowledged that additional items from the current vendor and shared from other state have gone through Utah's development process are being utilized meet the breadth and depth of our current SAGE assessment system to fully measure student performance with validity and reliability.

Board Strategic Plan:

This item supports the following imperative(s) and strategies in the Board's Strategic Plan:

- **Accountability:** Provide a transparent assessment system that includes diagnostic information to help parent, child, and teacher understand how to improve performance.

Anticipated Action: It is anticipated the Standards and Assessment Committee will review and discuss the request to initiate the SAGE additional item development and make recommendations to the Board for approval.

Contact: Jo Ellen Schaffer, 801-538-7811
Rich Nye, 801-538-7554

Utah SAGE Assessment Item Bank

High Need Areas:

- 6-8 Grade Science with Engineering Education (SEEd) Standards (75% new items needed; 337 x 3 tests= 1,012 items)
- Items at low and high end of spectrum difficulty
- Secondary Math assessment adjustments to match adjustments to standards approved
- ELA listening items
- Writing prompts

Key Points:

- The following steps would be incorporated into the item development process:
 - Blueprint design
 - Item specification mapping
 - Actual item development training and writing utilizing Utah teachers
 - Embedding field items in fall/spring, 2017
 - Field test 2017
 - Standards validation (Science)
 - Operational testing 2018

SAGE Item Bank Status 3/28/2016	Utah Owned Interim Bank	Utah Owned Summative Bank	Utah Owned Interim and Summative Total Bank 2017	Additional vendor Sourced summative Items/Utah's development Process (unavailable after 2017)	Additional summative Items Shared From Other States/Utah's development process (unavailable after 2017)	SAGE Summative Total Utilized Bank for Spring 2017	Grand Total Utilized SAGE Assessment 2017
Mathematics	1018	2282	3300	548	482	3310	4330
3	113	234	347	57	61	352	465
4	122	336	458	49	60	445	567
5	124	362	486	72	43	476	601
6	117	245	362	55	58	357	475
7	116	189	305	60	51	300	416
8	112	168	280	63	68	299	411
Secondary Math I	109	252	361	80	60	392	501
Secondary Math II	102	319	421	73	49	441	543
Secondary Math III	103	177	280	39	32	248	351
Reading	1108	2090	3198	913	109	3108	4220
3	114	214	328	84	23	317	435
4	111	268	379	106	3	377	488
5	119	262	381	90		352	471
6	131	307	438	113		420	551
7	142	240	382	101	15	356	498
8	116	246	362	56	9	311	427
9	137	215	352	114	34	363	500
10	129	162	291	125	16	303	432
11	109	176	285	124	9	309	418
Science	1611	2478	4089		72	2550	4161
4	236	398	634		2	400	636
5	218	260	478		25	285	503
6	203	262	465		10	272	475
7	173	219	392		3	222	395
8	151	214	365		10	224	375
Biology	164	291	455		15	306	470
Chemistry	120	235	355			235	355
Earth Science	186	271	457		3	274	460
Physics	160	328	488		4	332	492
Grand Total	3737	6850	10587	1461	663	8968	12711

SAGE Writing Item Prompts Status 3/28/2016			
Writing Prompts	Interim Bank	Summative Bank	Total Writing prompts
3: Grade 3	2 Prompts: (1 informative/ 1 opinion)	15 Prompts: (7 informative, 8 opinion)	17
4: Grade 4	2 Prompts: (1 informative/ 1 opinion)	18 Prompts: (9 informative, 9 opinion)	20
5: Grade 5	2 Prompts: (1 informative/ 1 opinion)	17 Prompts: (9 informative, 8 opinion)	19
6: Grade 6	2 Prompts: (1 informative/ 1 opinion)	17 Prompts: (9 informative, 8 opinion)	19
7: Grade 7	2 Prompts: (1 informative/ 1 argument)	13 Prompts: (7 informative, 6 argument)	15
8: Grade 8	2 Prompts: (1 informative/ 1 argument)	16 Prompts: (8 informative, 8 argument)	18
9: Grade 9	2 Prompts: (1 informative/ 1 argument)	16 Prompts: (8 informative, 8 argument)	18
10: Grade 10	2 Prompts: (1 informative/ 1 argument)	15 Prompts: (7 informative, 8 argument)	17
11: Grade 11	2 Prompts: (1 informative/ 1 argument)	14 Prompts: (7 informative, 7 argument)	16
Grand Total	18	141	159