

**RFP# DOE-SGA-2012-15, COMMITTEE QUESTION, ALIGNMENT:**

Provide evidence of alignment to the current Standards of Learning including a comparative chart of content standards developed by your company to VA content standards for each content area/grade level that your proposed assessment(s) addresses and numbers of items for each standard. If you are planning to develop assessments in response to the contract being awarded, provide the content standards that you will include in your assessment(s) and the number of items you will develop for each standard with a timeline.

**CONSULTING, SERVICES AND SOLUTIONS GROUP, INC. RESPONSE:**

**Evidence of Alignment**

CSSG uses the Virginia Curriculum Framework and blueprint documents when aligning test items in our Standards of Learning Assessment Resource System. The remainder of this page provides alignment examples.

The following provides evidence of alignment of test items to the Virginia Standards of Learning (SOL) for existing assessments.

**Question 1 of 33 Item#: 104197 SOL: 3.1a**  
**ES: A EK: BT: E**  
 What is the value of 2 in 295,000?  
 A 200  
 B 2,000  
 C 20,000  
 D 200,000

Essential Knowledge and Skill  
1st Bullet

Bloom's Taxonomy  
"Evaluation"

SOL 3.1 a

**Question 33 of 33 Item#: 106294 SOL: 3.17c ES: K EK: BT: K**  
 The graph shows the favorite color of students in a class. Which color is the least popular?

Bloom's Taxonomy  
"Knowledge"

Essential Knowledge and Skill Bullet #11

SOL 3.17c

Color	Number of Students
Blue	11
Yellow	2
Green	5
Purple	8
Orange	4

A Yellow  
 B Orange  
 C Green

The following provides additional evidence of alignment of test items to the Virginia Standards of Learning (SOL) for existing assessments.

<p>Question 32 of 35 Item#: 106239 SOL: 4.16b ES: D EK: BT: C</p> <p>Which is the associative property for addition?</p> <p>F <math>9 \times (5 \times 7) = (9 \times 5) \times 7</math> Bloom's Taxonomy "Comprehension"</p> <p>G <math>9 + 5 + 7 = 7 + 5 + 9</math> Essential Knowledge and Skill Bullet #4</p> <p>H <math>9 + (5 + 7) = (9 + 5) + 7</math> Essential Knowledge and Skill Bullet #4</p> <p>J <math>9 + (5 + 7) = (5 + 7) + 9</math></p> <p>SOL 4.16b</p>	<p>Essential Knowledge and Skill Bullet #4</p> <p>Bloom's Taxonomy "Comprehension"</p> <p>Question 29 of 33 Item#: 102007 SOL: A.7f ES: D EK: BT: C</p> <p>If Sarah has 3 A's on her report card her parents give her \$45. If she has 5 A's she gets \$75, and if she has 7 A's she gets \$105. Which pattern describes the amount Sarah gets for her A's?</p> <p>A There is no pattern for the amount Sarah gets.</p> <p>B Sarah gets \$30 more than the number of A's she has.</p> <p>C Sarah gets 10 times the number of A's, minus \$15.</p> <p>D Sarah gets \$15 for every A she has on her report card.</p> <p>SOL A.7f Algebra</p>
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The content, knowledge and essential skills that are measured for each content area are as follows:

**Math Grade 2 – End of Course Content Area Skills Measured are:** The Virginia Mathematics Standards and the associated cross-walked bulleted Essential Knowledge and Skills of the Virginia Curriculum Frameworks are measured for this content area, complimented with cognitive skill measurement, since each item on the assessment forms are also aligned to Bloom’s Taxonomy;

**The types of test items used are:**

- **Multiple Choice:** Math (Grades 2-EOC) , Reading/Writing (Grades 2-EOC) , Science (Grades 2 – EOC), History (Grades 3 – EOC)
- **Fill in the Blank:** Math (Grades 3- EOC) **Note:** Being expanded to all contents areas.
- **Drag and Drop:** Math (Grades 3 – EOC) **Note:** Being expanded to all content areas.
- **Hot Spot:** Math (Grades 3 – EOC) **Note:** Being expanded to all content areas.
- **Online Writing Tool:** Writing (Grades 5, 8, EOC)

**Modes of Delivery are:**

- Online
- Paper and Pencil
- Clicker Technologies (2013/2014 Academic Year)

**Math Assessments**

Our Standards of Learning Assessment Resource System has ■ math test items solely for use for student growth assessments. They are not available for use in the teacher item bank. Please see the chart below showing the reporting category alignment of the items provided in our Standards of Learning Assessment Resource System. Consulting, Services and Solutions Group, Inc. can modify this test to include additional items on the test and/or replace items.

Any modifications can be made within three (3) days of notification by VDOE, provided that existing Standards of Learning Assessment Resource System items will be used in the changes. If new items are to be created for this test, CSSG can create the items within ten (10) business days. At this time, CSSG is not developing additional assessments unless requested by VDOE for all districts. CSSG has provided the following assessments:

- Algebra 1 Fall and Spring tests
- Algebra 2 Fall and Spring tests
- Geometry Fall and Spring tests
- Math 3, 4, 5, 6, 7 and 8 Fall and Spring tests

**Math 3 Fall**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Number and Number Sense</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	3.4	2.1a, 3.1a, 3.1c, 3.1b	3.17a, 3.17c
<b>Questions</b>	2, 4, 6, 12, 17, 19, 21, 25, 28, 29, 30	5, 26, 1, 3, 10, 14, 16, 18, 24, 31	7, 8, 9, 11, 13, 15, 20, 22, 23, 27
<b>Total Number of Questions per Reporting Category</b>	<b>11</b>	<b>10</b>	<b>10</b>

**Math 3 Fall**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Measurement and Geometry</b>	<b>Number and Number Sense</b>
<b>Standards of Learning</b>	3.7	3.8, 3.14, 3.15, 3.16	3.3a, 3.3c
<b>Questions</b>	1, 11, 16	2, 3, 4, 5, 6, 7, 9, 14, 15, 18, 19, 20, 21, 23, 24, 25, 26, 27, 28, 29, 30	8, 10, 12, 13, 17, 22
<b>Total Number of Questions per Reporting Category</b>	<b>3</b>	<b>21</b>	<b>6</b>

**Math 4 Fall**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Number and Number Sense</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	4.4a, 4.4b	4.4c, 4.4d, 4.1a, 4.1b, 4.1c	4.14
<b>Questions</b>	1, 2, 3, 4, 8, 9, 11, 12, 17, 20, 29	6, 7, 10, 13, 14, 22, 24, 25, 26, 27, 32	5, 15, 16, 18, 19, 21, 23, 28, 30, 31
<b>Total Number of Questions per Reporting Category</b>	<b>11</b>	<b>11</b>	<b>10</b>

**Math 4 Spring**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Measurement and Geometry</b>	<b>Number and Number Sense</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	4.5a, 4.5c, 4.5d, 4.9	4.7a, 4.7b	4.3a, 4.3d	4.13a, 4.13b, 4.15
<b>Questions</b>	1, 3, 6, 9, 11, 20	7, 13, 16, 17, 19, 21, 24, 25, 26, 27, 29	4, 8, 12, 15	2, 5, 10, 14, 18, 22, 23, 28, 30, 31
<b>Total Number of Questions per Reporting Category</b>	<b>6</b>	<b>11</b>	<b>4</b>	<b>10</b>

**Math 5 Fall**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	5.4, 5.7	5.15, 5.19, 5.16c, 5.16d
<b>Questions</b>	2, 4, 5, 6, 9, 11, 13, 15, 19, 21, 22, 23, 27, 31	1, 3, 7, 8, 10, 12, 14, 16, 17, 18, 20, 24, 25, 26, 28, 29, 30
<b>Total Number of Questions per Reporting Category</b>	<b>14</b>	<b>17</b>

**Math 5 Spring**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Measurement and Geometry</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	5.5a, 5.5b	5.9, 5.11, 5.12a, 5.12b, 5.13a, 5.13b	5.17
<b>Questions</b>	1, 5, 11, 14, 18, 21, 29	2, 3, 4, 6, 7, 8, 10, 12, 15, 16, 17, 19, 20, 22, 23, 27, 28, 30, 31	9, 13, 24, 25, 26
<b>Total Number of Questions per Reporting Category</b>	<b>7</b>	<b>19</b>	<b>5</b>

**Math 6 Fall**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Number and Number Sense</b>
<b>Standards of Learning</b>	6.6b, 6.8, 6.7, 6.6a	6.3b, 6. 6.2b, 6.2a, 6.2d, 6.4
<b>Questions</b>	3, 5, 7, 9, 10, 13, 14, 19, 20, 25, 26, 27, 31, 34	2, 4, 6, 8, 11, 12, 15, 16, 17, 18, 21, 22, 23, 24, 28, 29, 30, 32, 33, 35, 36
<b>Total Number of Questions per Reporting Category</b>	<b>14</b>	<b>21</b>

**Math 6 Spring**

<b>Reporting Categories:</b>	<b>Computation and Estimation</b>	<b>Measurement and Geometry</b>	<b>Number and Number Sense</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	6.8	6.11a	6.1, 6.5, 6.2b, 6.3a	6.17, 6.18, 6.14a, 6.14b, 6.15a, 6.15b, 6.16a, 6.19b
<b>Questions</b>	14, 24, 30	15, 22, 26	7, 11, 16, 17, 19, 23	1, 2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 18, 20, 21, 25, 27, 28, 29
<b>Total Number of Questions per Reporting Category</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>18</b>

**Math 7 Fall**

<b>Reporting Categories:</b>	<b>Number, Number Sense, Computation and Estimation</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	7.1b, 7.1c, 7.1d, 7.1e, 7.7a, 7.3b	7.16a, 7.16b, 7.16c, 7.16d, 7.16e
<b>Questions</b>	2, 3, 4, 7, 9, 10, 11, 13, 14, 16, 18, 19, 20, 21, 23, 24, 27, 29, 30, 32, 33, 34, 35	1, 5, 6, 8, 12, 15, 17, 22, 25, 26, 28, 31
<b>Total Number of Questions per Reporting Category</b>	<b>23</b>	<b>12</b>

**Math 7 Spring**

<b>Reporting Categories:</b>	<b>Measurement and Geometry</b>	<b>Number, Number Sense, Computation and Estimation</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	7.7	7.2	7.10, 7.12, 7.11a, 7.11b, 7.13a, 7.14a, 7.14b, 7.15a, 7.15b
<b>Questions</b>	5	7, 13, 17, 22	1, 2, 3, 4, 6, 8, 9, 10, 11, 12, 14, 15, 16, 18, 19, 20, 21, 23, 24, 25, 26, 27
<b>Total Number of Questions per Reporting Category</b>	<b>1</b>	<b>4</b>	<b>22</b>

**Math 8 Fall**

<b>Reporting Categories:</b>	<b>Number, Number Sense, Computation and Estimation</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	8.2, 8.1b, 8.4, 8.3a	8.1a, 8.15a, 8.15c
<b>Questions</b>	8, 16, 3, 21, 14, 17, 22, 24, 2, 12, 10, 5, 4, 19, 6, 9, 18, 20, 26, 28, 27, 23	15, 25, 7, 29, 30, 31, 11, 13
<b>Total Number of Questions per Reporting Category</b>	<b>22</b>	<b>8</b>

**Math 8 Spring**

<b>Reporting Categories:</b>	<b>Measurement and Geometry</b>	<b>Number, Number Sense, Computation and Estimation</b>	<b>Probability, Statistics, Patterns, Functions, and Algebra</b>
<b>Standards of Learning</b>	8.11, 8.10b, 8.6a, 8.6b, 8.8b	8.3a, 8.3b, 8.5a, 8.5b	8.14, 8.16, 8.17, 8.15b
<b>Questions</b>	1, 2, 3, 4, 6, 7, 8, 9, 13, 19, 24, 26	10, 12, 14, 15, 16, 23, 28	5, 11, 17, 18, 20, 21, 22, 25, 27, 29, 30
<b>Total Number of Questions per Reporting Category</b>	<b>12</b>	<b>7</b>	<b>11</b>

**Algebra 1 Fall**

<b>Reporting Categories:</b>	<b>Equation and Inequalities</b>	<b>Expression and Operations</b>	<b>Function and Statistics</b>
<b>Standards of Learning</b>	A.4a, A.4b, A.5a, A.6a, A.6b	A.1	A.8, A.7a, A.7b, A.7f
<b>Questions</b>	1, 2, 9, 11, 12, 13, 14, 16, 18, 19, 20, 24, 27, 28, 29, 30, 33, 34, 36	7, 10, 15, 25, 35	3, 4, 5, 6, 8, 17, 21, 22, 23, 26, 31, 32
<b>Total Number of Questions per Reporting Category</b>	<b>19</b>	<b>5</b>	<b>12</b>

**Algebra 1 Spring**

<b>Reporting Categories:</b>	<b>Equation and Inequalities</b>	<b>Expression and Operations</b>	<b>Function and Statistics</b>
<b>Standards of Learning</b>	A.6a, A. 6b, A.4b, A.4d, A.5a	A.1	A.7a, A.7b, A.8
<b>Questions</b>	1, 8, 10, 11, 12, 13, 15, 17, 18, 19, 20, 21, 25, 28, 29, 30, 31, 34, 35	6, 9, 14, 26, 36	2, 3, 4, 5, 7, 16, 22, 23, 24, 27, 32, 33
<b>Total Number of Questions per Reporting Category</b>	<b>19</b>	<b>5</b>	<b>12</b>

**Algebra 2 Fall**

<b>Reporting Categories:</b>	<b>Equation and Inequalities</b>	<b>Expression and Operations</b>	<b>Function and Statistics</b>
<b>Standards of Learning</b>	AII.4a, AII.5, AII.4b	AII.3, AII.1d, AII.1b, AII.1c	AII.7a, AII.7c, AII.6, AII.8, AII.7h
<b>Questions</b>	6, 7, 10, 15, 17, 24, 25, 29, 31, 35	2, 5, 8, 9, 12, 13, 16, 19, 20, 21, 22, 32, 34	1, 3, 4, 11, 14, 18, 23, 26, 27, 28, 30, 33
<b>Total Number of Questions per Reporting Category</b>	<b>10</b>	<b>13</b>	<b>12</b>

**Algebra 2 Spring**

<b>Reporting Categories:</b>	<b>Equation and Inequalities</b>	<b>Expression and Operations</b>	<b>Function and Statistics</b>
<b>Standards of Learning</b>	AII.5, AII.4a, AII.4b, AII.7f	AII.3, AII.1b, AII.1c, AII.1d,	AII.6, AII.8, AII.7a, AII.7c, AII.7h
<b>Questions</b>	5, 6, 9, 14, 16, 19, 25, 26, 30, 32	1, 4, 7, 8, 11, 12, 15, 20, 21, 22, 23, 33, 35	2, 3, 10, 13, 17, 18, 24, 27, 28, 29, 31, 34
<b>Total Number of Questions per Reporting Category</b>	<b>10</b>	<b>13</b>	<b>12</b>

**Geometry Fall**

<b>Reporting Categories:</b>	<b>Polygons, Circles, and Three-Dimensional Figures</b>	<b>Reasoning, Lines, and Transformations</b>	<b>Triangles</b>
<b>Standards of Learning</b>	G.10	G.1a, G.1b, G.1c, G.1d, G.2a, G.2b, G.2c, G.3a, G.3b, G.3c, G.3d	G.5a, G.5b, G.5c, G.5d, G.7
<b>Questions</b>	4, 17, 26	1, 2, 5, 6, 9, 10, 11, 13, 14, 15, 16, 18, 19, 21, 22, 24, 27, 28, 29, 30, 31, 32, 35	3, 7, 8, 12, 20, 23, 25, 33, 34
<b>Total Number of Questions per Reporting Category</b>	<b>3</b>	<b>23</b>	<b>9</b>

**Geometry Spring**

<b>Reporting Categories:</b>	<b>Polygons, Circles, and Three-Dimensional Figures</b>	<b>Reasoning, Lines, and Transformations</b>	<b>Triangles</b>
<b>Standards of Learning</b>	G.10	G.1a, G.1b, G.2a, G.2b, G.2c, G.3a, G.3b, G.4c	G.7, G.5a, G.5b, G.5c, G.5d
<b>Questions</b>	3, 16, 27	1, 4, 5, 8, 9, 10, 12, 13, 14, 15, 17, 18, 19, 20, 22, 23, 25, 28, 29, 30, 31, 32, 33	2, 6, 7, 11, 21, 24, 26, 34, 35
<b>Total Number of Questions per Reporting Category</b>	<b>3</b>	<b>23</b>	<b>9</b>