

**WORKSHEETS FOR COMPONENT RETESTING IN MATHEMATICS A**

To be eligible for component retesting in Mathematics A, a junior or senior **must have done the following**:

1. taken the Regents Examination in Mathematics A at least twice **AND** earned a score of 48 or higher on either of the two examinations taken most recently.

**OR**

2. taken the Regents Examination in Mathematics A only once **and** the Regents Examination in Integrated Algebra at least once **AND** earned a score of 48 or higher on either the Regents Examination in Mathematics A or the Regents Examination in Integrated Algebra taken most recently.

Any junior or senior who has not scored at least 48 on the above examinations is **not eligible** for component retesting and should take the June 2009 Regents Examination in Integrated Algebra.

The following pages are worksheets for determining which component(s) the eligible junior or senior is to take. Make separate worksheets for each eligible junior or senior. Then follow the steps below.

- Fill out *Junior/Senior Worksheet 1* using information from **each of the two** most recent Mathematics A Examinations the student has taken. If the student has taken Mathematics A once and Integrated Algebra once, fill out the worksheet in its entirety for Mathematics A and complete the heading only for Integrated Algebra.
- Use **Table A—Mathematics A Regents Examination Map to Learning Standards/Criterion Scores for Components** (pages 2–7) to compute the student’s component scores only for the Regents Examination in Mathematics A. The key ideas from the *Map to Learning Standards* and the credit for each question appear on the table. Follow the directions at the top of page 2 to fill in the table.

**Note:** The junior or senior’s score for each component is the number of credits earned on the questions for that key idea, **not** the number of items correct.

For those Mathematics A Examinations administered from June 2005 through January 2009, items 1–35 are worth 2 credits, items 36 and 37 are worth 3 credits, and items 38 and 39 are worth 4 credits.

If all of the student’s scores for an examination are not available, use **Table C—Determining Weaker Component(s) When Complete Examination Data Are Unavailable** (page 10).

For a student who has taken Mathematics A twice, proceed to **Table B-1—Mathematics A Data Table** (page 8). Fill in all rows except the last by copying the data from Table A. For each of the two examinations, be sure to indicate which component(s) are considered weak for each key idea by putting check marks in the boxes in the next-to-last row.

Proceed to **Table D—Weakness Pattern/Determining Component(s) for Retesting** (pages 11–14).

Place a check mark in the third column of Table D to indicate which row matches the student’s weakness pattern.

If the student’s higher score is between 55 and 64, the next-to-last column of the table identifies the **one** component for retesting.

If the student’s higher score is between 48 and 54, the last column identifies the **two** components for retesting.

Place check mark(s) in the Component(s) to Retest section of Table B-1. This indicates the component(s) the junior or senior is to take in May 2009.

For a student who has taken Mathematics A only once and Integrated Algebra at least once, proceed to **Table B-2—Mathematics A/Integrated Algebra Data Table** (page 9). Fill in only the Date and Final Score for the Regents Examination in Integrated Algebra the student has taken most recently. For the Mathematics A examination, fill in all rows except the last by copying the data from Table A. Be sure to indicate which component(s) are considered weak for each key idea by putting check marks in the boxes in the next-to-last row.

Proceed to **Table E—Weakness Pattern/Determining Component(s) for Retesting** (page 15).

Place a check mark in the second column of Table E to indicate which row matches the student’s weakness pattern.

If the student’s higher score is between 55 and 64, the next-to-last column of the table identifies the **one** component for retesting.

If the student’s higher score is between 48 and 54, the last column identifies the **two** components for retesting.

Place check mark(s) in the Component(s) to Retest section of Table B-2. This indicates the component(s) the junior or senior is to take in May 2009.

**JUNIOR/SENIOR WORKSHEET 1: JUNE 2005 – JANUARY 2009**

Junior/Senior Name \_\_\_\_\_

Other Student Identifier \_\_\_\_\_

Name of Next Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Name of Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

Complete Table A by entering the scores from the eligible student's Mathematics A answer sheet for the examination questions listed below. Add the student scores for each component and write that number in the column labeled "Sum." If the sum for a component is less than the criterion score given, place a check mark in the box to indicate that the student score was weak in that component. Copy the pertinent data for the student to Table B-1 or B-2. Then use

Table D to identify which component(s) the junior or senior is to take. If one of the eligible student's examinations is Integrated Algebra and one is Mathematics A, complete the worksheets for Mathematics A and the headings only for Integrated Algebra and proceed to Table E to determine which component(s) the eligible student is to take.

**Table A – Mathematics A Regents Examination Map to Learning Standards/Criterion Scores for Components**

January 2009					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	3	2		6	
	18	2			
	19	2			
	31	2			
	32	2			
	37	3			
	38	4			
<i>Measurement</i> Component 5	5	2		7	
	14	2			
	16	2			
	26	2			
	33	2			
	36	3			
	39	4			
<i>Uncertainty</i> Component 6	7	2		2	
	25	2			
	29	2			
<i>Patterns/ Functions</i> Component 7	2	2		10	
	4	2			
	6	2			
	8	2			
	9	2			
	13	2			
	20	2			
	22	2			
27	2				
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

August 2008					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	8	2		6	
	20	2			
	30	2			
	32	2			
	35	2			
	37	3			
	38	4			
	<i>Measurement</i> Component 5	5	2		
9		2			
11		2			
14		2			
27		2			
28		2			
34		2			
36		3			
<i>Uncertainty</i> Component 6	3	2		3	
	16	2			
	26	2			
<i>Patterns/ Functions</i> Component 7	12	2		5	
	15	2			
	22	2			
	23	2			
	25	2			
	31	2			
	39	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Junior/Senior Name \_\_\_\_\_

Other Student Identifier \_\_\_\_\_

Name of Next Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Name of Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

June 2008					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	2	2			7
	6	2			
	19	2			
	25	2			
	31	2			
	36	3			
	38	4			
<i>Measurement Component 5</i>	1	2			6
	18	2			
	20	2			
	22	2			
	29	2			
	30	2			
	32	2			
	33	2			
<i>Uncertainty Component 6</i>	9	2			3
	14	2			
	21	2			
<i>Patterns/ Functions Component 7</i>	4	2			6
	10	2			
	13	2			
	24	2			
	34	2			
	39	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

January 2008					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	10	2			4
	20	2			
	23	2			
	24	2			
	30	2			
	35	2			
	36	3			
<i>Measurement Component 5</i>	2	2			5
	6	2			
	18	2			
	27	2			
	31	2			
	34	2			
	38	4			
<i>Uncertainty Component 6</i>	5	2			4
	11	2			
	29	2			
	32	2			
<i>Patterns/ Functions Component 7</i>	1	2			7
	7	2			
	8	2			
	13	2			
	25	2			
	28	2			
	39	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Junior/Senior Name \_\_\_\_\_

Name of Next Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

Other Student Identifier \_\_\_\_\_

Name of Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

August 2007					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	13	2			5
	16	2			
	22	2			
	29	2			
	32	2			
	34	2			
	35	2			
	37	3			
<i>Measurement Component 5</i>	2	2			6
	7	2			
	14	2			
	24	2			
	26	2			
	36	3			
	38	4			
<i>Uncertainty Component 6</i>	4	2			3
	20	2			
	27	2			
<i>Patterns/ Functions Component 7</i>	3	2			9
	5	2			
	6	2			
	8	2			
	23	2			
	28	2			
	31	2			
	33	2			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

June 2007					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	18	2			5
	19	2			
	22	2			
	33	2			
	34	2			
	36	3			
	39	4			
	<i>Measurement Component 5</i>	3	2		
9		2			
10		2			
13		2			
15		2			
31		2			
35		2			
37		3			
<i>Uncertainty Component 6</i>	5	2			4
	12	2			
	23	2			
	28	2			
<i>Patterns/ Functions Component 7</i>	2	2			6
	4	2			
	16	2			
	21	2			
	25	2			
	38	4			
	Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7				

Junior/Senior Name \_\_\_\_\_

Name of Next Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

Other Student Identifier \_\_\_\_\_

Name of Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

January 2007					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	2	2			7
	10	2			
	12	2			
	22	2			
	25	2			
	31	2			
	37	3			
<i>Measurement</i> Component 5	4	2			7
	8	2			
	11	2			
	17	2			
	18	2			
	32	2			
	35	2			
	39	4			
<i>Uncertainty</i> Component 6	9	2			3
	13	2			
	21	2			
	29	2			
<i>Patterns/ Functions</i> Component 7	5	2			6
	14	2			
	19	2			
	26	2			
	27	2			
	33	2			
	38	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

August 2006					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	3	2			7
	9	2			
	13	2			
	18	2			
	34	2			
	37	3			
	38	4			
	<i>Measurement</i> Component 5	8	2		
19		2			
24		2			
30		2			
32		2			
33		2			
35		2			
39		4			
<i>Uncertainty</i> Component 6	4	2			3
	16	2			
	26	2			
	36	3			
<i>Patterns/ Functions</i> Component 7	2	2			7
	6	2			
	15	2			
	20	2			
	22	2			
	25	2			
	27	2			
	28	2			
	Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7				

Junior/Senior Name \_\_\_\_\_

Name of Next Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

June 2006					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	1	2			9
	6	2			
	11	2			
	15	2			
	17	2			
	19	2			
	21	2			
	26	2			
29	2				
<i>Measurement</i> Component 5	8	2			6
	10	2			
	18	2			
	31	2			
	33	2			
	37	3			
	39	4			
<i>Uncertainty</i> Component 6	5	2			3
	7	2			
	30	2			
	32	2			
<i>Patterns/ Functions</i> Component 7	2	2			6
	12	2			
	13	2			
	20	2			
	34	2			
	36	3			
	38	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Other Student Identifier \_\_\_\_\_

Name of Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

January 2006					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	4	2			8
	10	2			
	13	2			
	14	2			
	20	2			
	23	2			
	24	2			
	39	4			
	<i>Measurement</i> Component 5	5	2		
11		2			
15		2			
17		2			
18		2			
26		2			
33		2			
38		4			
<i>Uncertainty</i> Component 6	12	2			2
	28	2			
	34	2			
<i>Patterns/ Functions</i> Component 7	1	2			5
	6	2			
	25	2			
	29	2			
	35	2			
	36	3			
	37	3			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Junior/Senior Name \_\_\_\_\_

Name of Next Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

August 2005					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	7	2		8	
	9	2			
	10	2			
	12	2			
	13	2			
	17	2			
	20	2			
	30	2			
<i>Measurement Component 5</i>	1	2		5	
	15	2			
	18	2			
	31	2			
	34	2			
	36	3			
	39	4			
<i>Uncertainty Component 6</i>	2	2		4	
	3	2			
	27	2			
<i>Patterns/ Functions Component 7</i>	25	2		3	
	28	2			
	29	2			
	35	2			
	37	3			
	38	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Other Student Identifier \_\_\_\_\_

Name of Most Recent Examination Taken by Eligible Student \_\_\_\_\_

Date \_\_\_\_\_ Score \_\_\_\_\_

June 2005					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	10	2		7	
	15	2			
	16	2			
	24	2			
	26	2			
	31	2			
	32	2			
	37	3			
<i>Measurement Component 5</i>	5	2		5	
	9	2			
	22	2			
	28	2			
	30	2			
	38	4			
	39	4			
<i>Uncertainty Component 6</i>	1	2		2	
	29	2			
	34	2			
<i>Patterns/ Functions Component 7</i>	2	2		9	
	7	2			
	13	2			
	14	2			
	19	2			
	21	2			
	23	2			
36	3				
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Use this table (B-1) only for juniors or seniors who have taken the Regents Examination in Mathematics A at least twice.

### JUNIOR/SENIOR WORKSHEET 2

Junior/Senior Name \_\_\_\_\_

Other Student Identifier \_\_\_\_\_

School Name \_\_\_\_\_

BEDS Code \_\_\_\_\_

**Table B-1—Mathematics A Data Table**

Next Most Recent Mathematics A Examination Taken				Most Recent Mathematics A Examination Taken			
Date: _____		Final Score: _____		Date: _____		Final Score: _____	
Component	Key Idea	Component Score		Component	Key Idea	Component Score	
		Sum	Criterion			Sum	Criterion
4	Modeling/Multiple Representation			4	Modeling/Multiple Representation		
5	Measurement			5	Measurement		
6	Uncertainty			6	Uncertainty		
7	Patterns/Functions			7	Patterns/Functions		
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7				Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7			
Component(s) to Retest: <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7							

Use this table (B-2) only for juniors or seniors who have taken the Regents Examination in Mathematics A only once and the Regents Examination in Integrated Algebra at least once.

### JUNIOR/SENIOR WORKSHEET 2

Junior/Senior Name \_\_\_\_\_

Other Student Identifier \_\_\_\_\_

School Name \_\_\_\_\_

BEDS Code \_\_\_\_\_

**Table B-2—Mathematics A/Integrated Algebra Data Table\***

<b>Most Recent Integrated Algebra Examination Taken</b> Date: _____ Final Score: _____	<b>Most Recent Mathematics A Examination Taken</b> Date: _____ Final Score: _____			
	<b>Component</b>	<b>Key Idea</b>	<b>Component Score</b>	
			<b>Sum</b>	<b>Criterion</b>
	<b>4</b>	<b>Modeling/Multiple Representation</b>		
	<b>5</b>	<b>Measurement</b>		
	<b>6</b>	<b>Uncertainty</b>		
	<b>7</b>	<b>Patterns/Functions</b>		
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7				
Component(s) to Retest: <sup>#</sup> <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7				

\* Enter only the Date and Final Score for the student’s Most Recent Integrated Algebra Examination Taken.

<sup>#</sup> Refer to **Table E—Weakness Pattern/Determining Component(s) for Retesting** (page 15) to complete this last row.

**TABLE C**  
**DETERMINING WEAKER COMPONENT(S)**  
**WHEN COMPLETE EXAMINATION DATA ARE UNAVAILABLE**

In some extraordinary circumstances, your school may not have complete data for each eligible junior or senior. If your school has the junior or senior's final score for an administration of the Regents Examination in Mathematics A but no other data, use Table C below to determine which component(s) should be considered the weaker component(s) for that administration.

**Table C—Determining Weaker Component(s)**  
**When Complete Examination Data Are Unavailable**

<b>All Examinations</b>	
<b>Scaled Score</b>	<b>Weaker Component(s)*</b>
<b>47 or below</b>	<b>4, 5, 6, &amp; 7</b>
<b>48–54</b>	<b>4 &amp; 7</b>
<b>55–60</b>	<b>4</b>
<b>61</b>	<b>7</b>
<b>62</b>	<b>4</b>
<b>63</b>	<b>7</b>
<b>64</b>	<b>6</b>

\* The data in this column represent the weakness patterns for the Regents Examinations in Mathematics A administered in June 1999 and June 2000.

**Table D—Weakness Pattern/Determining Component(s) for Retesting**  
Use Only for Juniors and Seniors Who Have Taken Mathematics A at Least Twice

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
4	4		4	4 & 5 or 4 & 6 or 4 & 7
4	4, 5		4	4 & 5
4	4, 5, 6		4	4 & 5 or 4 & 6
4	4, 5, 6, 7		4	4 & 5 or 4 & 6 or 4 & 7
4	4, 5, 7		4	4 & 5 or 4 & 7
4	4, 6		4	4 & 6
4	4, 6, 7		4	4 & 6 or 4 & 7
4	4, 7		4	4 & 7
4	5		5	4 & 5
4	5, 6		5 or 6	5 & 6
4	5, 6, 7		5 or 6 or 7	5 & 6 or 5 & 7 or 6 & 7
4	5, 7		5 or 7	5 & 7
4	6		6	4 & 6
4	6, 7		6 or 7	6 & 7
4	7		7	4 & 7
4, 5	4		4	4 & 5
4, 5	4, 5		4 or 5	4 & 5
4, 5	4, 5, 6		4 or 5	4 & 5
4, 5	4, 5, 6, 7		4 or 5	4 & 5
4, 5	4, 5, 7		4 or 5	4 & 5
4, 5	4, 6		4 or 6	4 & 6
4, 5	4, 6, 7		4	4 & 6 or 4 & 7
4, 5	4, 7		4	4 & 7
4, 5	5		5	4 & 5
4, 5	5, 6		5	5 & 6
4, 5	5, 6, 7		5	5 & 6 or 5 & 7
4, 5	5, 7		5	5 & 7
4, 5	6		6	4 & 6 or 5 & 6
4, 5	6, 7		6 or 7	6 & 7
4, 5	7		7	4 & 7 or 5 & 7

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
4, 5, 6	4		4	4 & 5 or 4 & 6
4, 5, 6	4, 5		4 or 5	4 & 5
4, 5, 6	4, 5, 6		5 or 6	5 & 6
4, 5, 6	4, 5, 6, 7		4 or 5 or 6	4 & 5 or 4 & 6 or 5 & 6
4, 5, 6	4, 5, 7		4 or 5	4 & 5
4, 5, 6	4, 6		4 or 6	4 & 6
4, 5, 6	4, 6, 7		4 or 6	4 & 6
4, 5, 6	4, 7		4	4 & 7
4, 5, 6	5		5	4 & 5 or 5 & 6
4, 5, 6	5, 6		5 or 6	5 & 6
4, 5, 6	5, 6, 7		5 or 6	5 & 6
4, 5, 6	5, 7		5	5 & 7
4, 5, 6	6		6	4 & 6 or 5 & 6
4, 5, 6	6, 7		6	6 & 7
4, 5, 6	7		7	4 & 7 or 5 & 7 or 6 & 7
4, 5, 6, 7	4		4	4 & 5 or 4 & 6 or 4 & 7
4, 5, 6, 7	4, 5		4 or 5	4 & 5
4, 5, 6, 7	4, 5, 6		4 or 5 or 6	4 & 5 or 4 & 6 or 5 & 6
4, 5, 6, 7	4, 5, 6, 7		4 or 5 or 6 or 7	Any Two
4, 5, 6, 7	4, 5, 7		4 or 5 or 7	4 & 5 or 4 & 7 or 5 & 7
4, 5, 6, 7	4, 6		4 or 6	4 & 6
4, 5, 6, 7	4, 6, 7		4 or 6 or 7	4 & 6 or 4 & 7 or 6 & 7
4, 5, 6, 7	4, 7		4 or 7	4 & 7
4, 5, 6, 7	5		5	4 & 5 or 5 & 6 or 5 & 7
4, 5, 6, 7	5, 6		5 or 6	5 & 6
4, 5, 6, 7	5, 6, 7		5 or 6 or 7	5 & 6 or 5 & 7 or 6 & 7
4, 5, 6, 7	5, 7		5 or 7	5 & 7
4, 5, 6, 7	6		6	4 & 6 or 5 & 6 or 6 & 7
4, 5, 6, 7	6, 7		6 or 7	6 & 7
4, 5, 6, 7	7		7	4 & 7 or 5 & 7 or 6 & 7

\*\* When the school must make a determination as to which component(s) to administer, the junior or senior should take the component that was next weakest on the last administration, as compared to the criterion score, or as determined by the teacher, based on performance on classwork.

Table D, continued

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
4, 5, 7	4		4	4 & 5 or 4 & 7
4, 5, 7	4, 5		4 or 5	4 & 5
4, 5, 7	4, 5, 6		4 or 5	4 & 5
4, 5, 7	4, 5, 6, 7		4 or 5 or 7	4 & 5 or 4 & 7 or 5 & 7
4, 5, 7	4, 5, 7		4 or 5 or 7	4 & 5 or 4 & 7 or 5 & 7
4, 5, 7	4, 6		4	4 & 7
4, 5, 7	4, 6, 7		4 or 7	4 & 7
4, 5, 7	4, 7		4 or 7	4 & 7
4, 5, 7	5		5	4 & 5 or 5 & 7
4, 5, 7	5, 6		5	5 & 6
4, 5, 7	5, 6, 7		5 or 7	5 & 7
4, 5, 7	5, 7		5 or 7	5 & 7
4, 5, 7	6		6	4 & 6 or 5 & 6 or 6 & 7
4, 5, 7	6, 7		7	6 & 7
4, 5, 7	7		7	4 & 7 or 5 & 7
4, 6	4		4	4 & 6
4, 6	4, 5		4	4 & 5
4, 6	4, 5, 6		4 or 6	4 & 6
4, 6	4, 5, 6, 7		4 or 6	4 & 6
4, 6	4, 5, 7		4	4 & 5 or 4 & 7
4, 6	4, 6		4 or 6	4 & 6
4, 6	4, 6, 7		4 or 6	4 & 6
4, 6	4, 7		4	4 & 7
4, 6	5		5	4 & 5 or 5 & 6
4, 6	5, 6		6	5 & 6
4, 6	5, 6, 7		6	5 & 6 or 6 & 7
4, 6	5, 7		5 or 7	5 & 7
4, 6	6		6	4 & 6
4, 6	6, 7		6	6 & 7
4, 6	7		7	4 & 7 or 6 & 7

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
4, 6, 7	4		4	4 & 6 or 4 & 7
4, 6, 7	4, 5		4	4 & 5
4, 6, 7	4, 5, 6		4 or 6	4 & 6
4, 6, 7	4, 5, 6, 7		4 or 6 or 7	4 & 6 or 4 & 7 or 6 & 7
4, 6, 7	4, 5, 7		4 or 7	4 & 7
4, 6, 7	4, 6		4 or 6	4 & 6
4, 6, 7	4, 6, 7		4 or 6 or 7	4 & 6 or 4 & 7 or 6 & 7
4, 6, 7	4, 7		4 or 7	4 & 7
4, 6, 7	5		5	4 & 5 or 5 & 6 or 5 & 7
4, 6, 7	5, 6		6	5 & 6
4, 6, 7	5, 6, 7		6 or 7	6 & 7
4, 6, 7	5, 7		7	5 & 7
4, 6, 7	6		6	4 & 6 or 6 & 7
4, 6, 7	6, 7		6 or 7	6 & 7
4, 6, 7	7		7	4 & 6 or 4 & 7
4, 7	4		4	4 & 7
4, 7	4, 5		4	4 & 5
4, 7	4, 5, 6		4	4 & 5 or 4 & 6
4, 7	4, 5, 6, 7		4 or 7	4 & 7
4, 7	4, 5, 7		4 or 7	4 & 7
4, 7	4, 6		4	4 & 6
4, 7	4, 6, 7		4 or 7	4 & 7
4, 7	4, 7		4 or 7	4 & 7
4, 7	5		5	4 & 5 or 5 & 7
4, 7	5, 6		5	5 & 6
4, 7	5, 6, 7		7	5 & 7 or 6 & 7
4, 7	5, 7		7	5 & 7
4, 7	6		6	4 & 6 or 6 & 7
4, 7	6, 7		7	6 & 7
4, 7	7		7	4 & 7

Table D, continued

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
5	4		4	4 & 5
5	4, 5		5	4 & 5
5	4, 5, 6		5	4 & 5 or 5 & 6
5	4, 5, 6, 7		5	4 & 5 or 5 & 6 or 5 & 7
5	4, 5, 7		5	4 & 5 or 5 & 7
5	4, 6		4 or 6	4 & 6
5	4, 6, 7		4 or 6 or 7	4 & 6 or 4 & 7 or 6 & 7
5	4, 7		4 or 7	4 & 7
5	5		5	5 and one other
5	5, 6		5	5 & 6
5	5, 6, 7		5	5 & 6 or 5 & 7
5	5, 7		5	5 & 7
5	6		6	5 & 6
5	6, 7		6 or 7	6 & 7
5	7		7	5 & 7
5, 6	4		4	4 & 5 or 4 & 6
5, 6	4, 5		5	4 & 5
5, 6	4, 5, 6		5 or 6	5 & 6
5, 6	4, 5, 6, 7		5 or 6	5 & 6
5, 6	4, 5, 7		5	4 & 5 or 5 & 7
5, 6	4, 6		6	4 & 6
5, 6	4, 6, 7		6	4 & 6 or 6 & 7
5, 6	4, 7		4 or 7	4 & 7
5, 6	5		5	5 & 6
5, 6	5, 6		5 or 6	5 & 6
5, 6	5, 6, 7		5 or 6	5 & 6
5, 6	5, 7		5	5 & 7
5, 6	6		6	5 & 6
5, 6	6, 7		6	6 & 7
5, 6	7		7	5 & 7 or 6 & 7

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
5, 6, 7	4		4	4 & 5 or 4 & 6 or 4 & 7
5, 6, 7	4, 5		5	4 & 5
5, 6, 7	4, 5, 6		5 or 6	5 & 6
5, 6, 7	4, 5, 6, 7		5 or 6 or 7	5 & 6 or 5 & 6 or 6 & 7
5, 6, 7	4, 5, 7		5 or 7	5 & 7
5, 6, 7	4, 6		6	4 & 6
5, 6, 7	4, 6, 7		6 or 7	6 & 7
5, 6, 7	4, 7		7	4 & 7
5, 6, 7	5		5	5 & 6 or 5 & 7
5, 6, 7	5, 6		5 or 6	5 & 6
5, 6, 7	5, 6, 7		5 or 6 or 7	5 & 6 or 5 & 7 or 6 & 7
5, 6, 7	5, 7		5 or 7	5 & 7
5, 6, 7	6		6	5 & 6 or 6 & 7
5, 6, 7	6, 7		6 or 7	6 & 7
5, 6, 7	7		7	5 & 7 or 6 & 7
5, 7	4		4	4 & 5 or 4 & 7
5, 7	4, 5		5	4 & 5
5, 7	4, 5, 6		5	4 & 5 or 5 & 6
5, 7	4, 5, 6, 7		5 or 7	5 & 7
5, 7	4, 5, 7		5 or 7	5 & 7
5, 7	4, 6		4 or 6	4 & 6
5, 7	4, 6, 7		7	4 & 7 or 6 & 7
5, 7	4, 7		7	4 & 7
5, 7	5		5	5 & 7
5, 7	5, 6		5	5 & 6
5, 7	5, 6, 7		5 or 7	5 & 7
5, 7	5, 7		5 or 7	5 & 7
5, 7	6		6	5 & 6 or 6 & 7
5, 7	6, 7		7	6 & 7
5, 7	7		7	5 & 7

Table D, concluded

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
6	4		4	4 & 6
6	4, 5		4 or 5	4 & 5
6	4, 5, 6		6	4 & 6 or 5 & 6
6	4, 5, 6, 7		6	4 & 6 or 5 & 6 or 6 & 7
6	4, 5, 7		4 or 5 or 7	4 & 5 or 4 & 7 or 5 & 7
6	4, 6		6	4 & 6
6	4, 6, 7		6	4 & 6 or 6 & 7
6	4, 7		4 or 7	4 & 7
6	5		5	5 & 6
6	5, 6		6	5 & 6
6	5, 6, 7		6	5 & 6 or 6 & 7
6	5, 7		5 or 7	5 & 7
6	6		6	6 and one other
6	6, 7		6	6 & 7
6	7		7	6 & 7
6, 7	4		4	4 & 6 or 4 & 7
6, 7	4, 5		4 or 5	4 & 5
6, 7	4, 5, 6		6	4 & 6 or 5 & 6
6, 7	4, 5, 6, 7		6 or 7	6 & 7
6, 7	4, 5, 7		7	4 & 7 or 5 & 7
6, 7	4, 6		6	4 & 6
6, 7	4, 6, 7		6 or 7	6 & 7
6, 7	4, 7		7	4 & 7
6, 7	5		5	5 & 6 or 5 & 7
6, 7	5, 6		6	5 & 6
6, 7	5, 6, 7		6 or 7	6 & 7
6, 7	5, 7		7	5 & 7
6, 7	6		6	6 & 7
6, 7	6, 7		6 or 7	6 & 7
6, 7	7		7	6 & 7

Weakness Pattern		☑	Component(s) for Student to Take**	
Next Most Recent Examination	Most Recent Examination		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
7	4		4	4 & 7
7	4, 5		4 or 5	4 & 5
7	4, 5, 6		4 or 5 or 6	4 & 5 or 4 & 6 or 5 or 6
7	4, 5, 6, 7		7	4 & 7 or 5 & 7 or 6 & 7
7	4, 5, 7		7	4 & 7 or 5 & 7
7	4, 6		4 or 6	4 & 6
7	4, 6, 7		7	4 & 7 or 6 & 7
7	4, 7		7	4 & 7
7	5		5	5 & 7
7	5, 6		5 or 6	5 & 6
7	5, 6, 7		7	5 & 7 or 6 & 7
7	5, 7		7	5 & 7
7	6		6	6 & 7
7	6, 7		7	6 & 7
7	7		7	7 and one other

**Table E—Weakness Pattern/Determining Component(s) for Retesting**

Use Only For Juniors and Seniors Who Have Taken Mathematics A Only Once and Integrated Algebra At Least Once

Weakness Pattern	<input checked="" type="checkbox"/>	Component(s) for Student to Take**	
		Higher Score Between 55 and 64 (1 component)	Higher Score Between 48 and 54 (2 components)
4		4	4 and One Other
4, 5		4 or 5	4 & 5
4, 5, 6		4 or 5 or 6	4 & 5 or 4 & 6 or 5 & 6
4, 5, 6, 7		4 or 5 or 6 or 7	Any Two
4, 5, 7		4 or 5 or 7	4 & 5 or 4 & 7 or 5 & 7
4, 6		4 or 6	4 & 6
4, 6, 7		4 or 6 or 7	4 & 6 or 4 & 7 or 6 & 7
4, 7		4 or 7	4 & 7
5		5	5 and One Other
5, 6		5 or 6	5 & 6
5, 6, 7		5 or 6 or 7	5 & 6 or 5 & 7 or 6 & 7
5, 7		5 or 7	5 & 7
6		6	6 and One Other
6, 7		6 or 7	6 & 7
7		7	7 and One Other

\*\* When the school must make a determination as to which component(s) to administer, the junior or senior should take the component that was next weakest, as compared to the criterion score, or as determined by the teacher, based on performance on classwork.

# EXAMPLES OF THE COMPONENT IDENTIFICATION PROCESS FOR THE MATHEMATICS A REGENTS EXAMINATION

## Junior/Senior Worksheet 1 for Student X

Student X took the Mathematics A Examination in August 2008 and received a final score of 54. The student retook the examination in January 2009 and received a final score of 52. Table A below lists Student X's scores and sums for each component of these two examinations. The sums for each component and the criterion scores were entered in Table B-1 (see next page). This table shows that Student X's weakness pattern for both examinations is 5, 6 and 4, 5, 6. Since Student X's higher score was 54, Student X must retest on two components. Based on Table D, this student should take components 5 and 6 in May 2009.

Junior/Senior Name Student X  
 Name of Next Most Recent Examination Taken by Eligible Student Mathematics A  
 Date August 2008 Score 54

Other Student Identifier SX1  
 Name of Most Recent Examination Taken by Eligible Student Mathematics A  
 Date January 2009 Score 52

August 2008					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	8	2	–	<b>8</b>	<b>6</b>
	20	2	2		
	30	2	2		
	32	2	2		
	35	2	–		
	37	3	2		
	38	4	–		
<i>Measurement Component 5</i>	5	2	–	<b>4</b>	<b>7</b>
	9	2	–		
	11	2	2		
	14	2	2		
	27	2	–		
	28	2	–		
	34	2	–		
36	3	–			
<i>Uncertainty Component 6</i>	3	2	–	<b>0</b>	<b>3</b>
	16	2	–		
	26	2	–		
<i>Patterns/ Functions Component 7</i>	12	2	2	<b>8</b>	<b>5</b>
	15	2	2		
	22	2	–		
	23	2	–		
	25	2	2		
	31	2	2		
	39	4	–		
Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7					

January 2009					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	3	2	2	<b>4</b>	<b>6</b>
	18	2	–		
	19	2	–		
	31	2	–		
	32	2	–		
	37	3	2		
	38	4	–		
<i>Measurement Component 5</i>	5	2	–	<b>3</b>	<b>7</b>
	14	2	–		
	16	2	2		
	26	2	–		
	33	2	–		
	36	3	–		
	39	4	1		
<i>Uncertainty Component 6</i>	7	2	–	<b>0</b>	<b>2</b>
	25	2	–		
	29	2	–		
<i>Patterns/ Functions Component 7</i>	2	2	2	<b>10</b>	<b>10</b>
	4	2	2		
	6	2	2		
	8	2	–		
	9	2	2		
	13	2	–		
	20	2	–		
	22	2	2		
27	2	–			
Weak Component(s): <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7					

**Junior/Senior Worksheet 2 for Student X**

Junior/Senior Name Student X

Other Student Identifier SX1

School Name Any High School

BEDS Code 123456789123

**Table B-1 for Student X**

<b>Next Most Recent Mathematics A Examination Taken</b>				<b>Most Recent Mathematics A Examination Taken</b>			
<b>Date: <u>August 2008</u></b>		<b>Final Score: <u>54</u></b>		<b>Date: <u>January 2009</u></b>		<b>Final Score: <u>52</u></b>	
<b>Component</b>	<b>Key Idea</b>	<b>Component Score</b>		<b>Component</b>	<b>Key Idea</b>	<b>Component Score</b>	
		<b>Sum</b>	<b>Criterion</b>			<b>Sum</b>	<b>Criterion</b>
4	<b>Modeling/Multiple Representation</b>	<b>8</b>	<b>6</b>	4	<b>Modeling/Multiple Representation</b>	<b>4</b>	<b>6</b>
5	<b>Measurement</b>	<b>4</b>	<b>7</b>	5	<b>Measurement</b>	<b>3</b>	<b>7</b>
6	<b>Uncertainty</b>	<b>0</b>	<b>3</b>	6	<b>Uncertainty</b>	<b>0</b>	<b>2</b>
7	<b>Patterns/Functions</b>	<b>8</b>	<b>5</b>	7	<b>Patterns/Functions</b>	<b>10</b>	<b>10</b>
<b>Weak Component(s):</b> <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7				<b>Weak Component(s):</b> <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7			
<b>Component(s) to Retest:</b> <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7							

### Junior/Senior Worksheet 1 for Student Y

Student Y took the Mathematics A Examination only once in June 2008 and received a final score of 48. The student took the Integrated Algebra Examination in January 2009 and received a final score of 52. Table A below lists Student Y's scores and sums for each component of the Mathematics A Examination. The sums for each component and the criterion scores were entered in Table B-2 (see next page). This table shows that Student Y's weakness pattern is 5, 7. Since Student Y's higher score was 52, Student Y must retest on two components. Based on Table E, this student should take components 5 and 7 in May 2009.

Junior/Senior Name Student Y

Other Student Identifier SY2

Name of Next Most Recent Examination Taken by Eligible Student Mathematics A

Name of Most Recent Examination Taken by Eligible Student Integrated Algebra

Date June 2008 Score 48

Date January 2009 Score 52

June 2008					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	2	2	2	<b>8</b>	<b>7</b>
	6	2	2		
	19	2	–		
	25	2	–		
	31	2	2		
	36	3	–		
	38	4	2		
<i>Measurement</i> Component 5	1	2	–	<b>2</b>	<b>6</b>
	18	2	2		
	20	2	–		
	22	2	–		
	29	2	–		
	30	2	–		
	32	2	–		
33	2	–			
<i>Uncertainty</i> Component 6	9	2	2	<b>4</b>	<b>3</b>
	14	2	2		
	21	2	–		
<i>Patterns/ Functions</i> Component 7	4	2	–	<b>3</b>	<b>6</b>
	10	2	–		
	13	2	2		
	24	2	–		
	34	2	–		
	39	4	1		
Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7					

January 2009	

**Junior/Senior Worksheet 2 for Student Y**

Junior/Senior Name Student Y

Other Student Identifier SY2

School Name Any High School

BEDS Code 123456789123

**Table B-2 for Student Y**

Most Recent Integrated Algebra Examination Taken		Most Recent Mathematics A Examination Taken			
Date: <u>January 2009</u> Final Score: <u>52</u>		Date: <u>June 2008</u> Final Score: <u>48</u>			
	Component	Key Idea	Component Score		
			Sum	Criterion	
	4	Modeling/Multiple Representation	8	7	
	5	Measurement	2	6	
	6	Uncertainty	4	3	
	7	Patterns/Functions	3	6	
Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7					
Component(s) to Retest: <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7					