

WORKSHEETS FOR COMPONENT RETESTING IN MATHEMATICS A

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

- taken the Mathematics A Examination at least twice **AND**
- earned a score between 48 and 64 on at least one of the two Mathematics A Regents Examinations taken most recently. Any junior or senior who has not scored at least 48 on at least one of his or her last two Mathematics A Regents Examinations is **not eligible** for component retesting and **must retake** the entire examination.

Pages 2-7 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 Worksheets A and B* using information from **each of the two** most recent Mathematics A Examinations the student has taken.
- Use *Table A—Mathematics A Regents Examination Map to Learning Standards/Criterion Scores for Components* to compute the student's component scores for the examinations. The information from the Map to Learning Standards and the credit for each question appears 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 the junior or senior earned on the questions for that key idea, **not** the number of items correct.

For the January 2004 examination, items 1–35 are worth 2 credits, items 36 and 37 are worth 3 credits, and items 38 and 39 are worth 4 credits. For all examinations administered prior to January 2004, items 1–25 are worth 2 credits, items 26–30 are worth 3 credits, and items 31–35 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*.
- Indicate which component(s) are considered weak for each component/key idea on the examination(s) by putting a check mark in the box in the last row of *Table B—Mathematics A Data Table*.
- Proceed to *Table D—Weakness Pattern/Determining Component(s) for Retesting*.
 - Place a check mark in the third column of *Table D* to indicate which row matches the student's pattern of weakness.
 - 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*. This indicates the component(s) the junior or senior is to take in April 2004.

Junior/Senior Worksheet A

Junior/Senior Name _____

Other Student Identifier _____

Next Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

Most Recent Mathematics A Examination Taken by Eligible Student
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*. Then use *Table D* to identify which component(s) the junior or senior is to take.

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

January 2004					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	2	2		9	
	4	2			
	9	2			
	10	2			
	17	2			
	18	2			
	20	2			
	21	2			
	27	2			
<i>Measurement</i> Component 5	8	2		6	
	26	2			
	31	2			
	32	2			
	33	2			
	37	3			
<i>Uncertainty</i> Component 6	5	2		3	
	24	2			
	35	2			
	38	4			
<i>Patterns/ Functions</i> Component 7	1	2		6	
	12	2			
	19	2			
	25	2			
	36	3			
	39	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

June 2003					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	7	2		5	
	9	2			
	24	2			
	25	2			
	27	3			
	32	4			
<i>Measurement</i> Component 5	2	2		6	
	21	2			
	22	2			
	30	3			
	31	4			
<i>Uncertainty</i> Component 6	5	2		3	
	20	2			
	29	3			
	34	4			
<i>Patterns/ Functions</i> Component 7	10	2		7	
	11	2			
	13	2			
	23	2			
	26	3			
	33	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 _____

Next Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

January 2003					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	10	2			11
	12	2			
	13	2			
	17	2			
	20	2			
	24	2			
	29	3			
	33	4			
<i>Measurement</i> Component 5	1	2			13
	15	2			
	16	2			
	22	2			
	25	2			
	30	3			
	31	4			
	34	4			
<i>Uncertainty</i> Component 6	7	2			4
	21	2			
	23	2			
<i>Patterns/ Functions</i> Component 7	9	2			7
	27	3			
	28	3			
	32	4			
	35	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

August 2002					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	2	2			11
	3	2			
	14	2			
	15	2			
	16	2			
	21	2			
	24	2			
	<i>Measurement</i> Component 5	1	2		
17		2			
23		2			
25		2			
27		3			
31		4			
35		4			
<i>Uncertainty</i> Component 6	4	2			2
	29	3			
<i>Patterns/ Functions</i> Component 7	18	2			11
	19	2			
	20	2			
	30	3			
	32	4			
	33	4			
34	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 _____

Next Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

June 2002					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	1	2			15
	8	2			
	10	2			
	12	2			
	13	2			
	19	2			
	26	3			
	27	3			
	30	3			
<i>Measurement Component 5</i>	4	2			12
	5	2			
	15	2			
	20	2			
	22	2			
	23	2			
	28	3			
	31	4			
<i>Uncertainty Component 6</i>	2	2			2
	34	4			
<i>Patterns/ Functions Component 7</i>	14	2			8
	25	2			
	29	3			
	32	4			
	35	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

January 2002					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation Component 4</i>	8	2			9
	13	2			
	16	2			
	23	2			
	25	2			
	29	3			
	34	4			
<i>Measurement Component 5</i>	2	2			13
	10	2			
	22	2			
	26	3			
	27	3			
	30	3			
<i>Uncertainty Component 6</i>	9	2			3
	18	2			
	31	4			
<i>Patterns/ Functions Component 7</i>	3	2			6
	4	2			
	15	2			
	28	3			
	32	4			
35	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 _____

Next Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

August 2001					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	9	2			10
	14	2			
	15	2			
	21	2			
	28	3			
	30	3			
	31	4			
<i>Measurement</i> Component 5	1	2			8
	5	2			
	8	2			
	10	2			
	22	2			
	34	4			
<i>Uncertainty</i> Component 6	7	2			5
	11	2			
	26	3			
	27	3			
<i>Patterns/ Functions</i> Component 7	18	2			7
	24	2			
	32	4			
	35	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

June 2001					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	3	2			12
	6	2			
	7	2			
	17	2			
	22	2			
	23	2			
	26	3			
	29	3			
	31	4			
<i>Measurement</i> Component 5	1	2			11
	5	2			
	15	2			
	16	2			
	24	2			
	27	3			
	32	4			
<i>Uncertainty</i> Component 6	14	2			3
	25	2			
	30	3			
<i>Patterns/ Functions</i> Component 7	4	2			5
	18	2			
	19	2			
	28	3			
	33	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 _____

Next Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

Most Recent Mathematics A Examination Taken by Eligible Student
Date _____ Score _____

June 2000					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	1	2			5
	14	2			
	22	2			
	27	3			
	32	4			
<i>Measurement</i> Component 5	4	2			9
	9	2			
	10	2			
	17	2			
	24	2			
	30	3			
	33	4			
<i>Uncertainty</i> Component 6	16	2			3
	23	2			
	34	4			
<i>Patterns/ Functions</i> Component 7	7	2			8
	8	2			
	12	2			
	18	2			
	25	2			
	31	4			
	35	4			
Weak Component(s): <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7					

Junior/Senior Worksheet B

Junior/Senior Name _____ Other Student Identifier _____

Table B—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							

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 Mathematics A Regents Examination but does not have 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**

All Examinations	
Scaled Score	Weaker Component(s)*
48–54	4 & 7
55–60	4
61	7
62	4
63	7
64	6

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

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

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-1, 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

**EXAMPLES OF THE COMPONENT IDENTIFICATION PROCESS FOR THE MATHEMATICS A REGENTS EXAMINATION
Junior/Senior Worksheet A for Student X**

Junior/Senior Name <u>Student X</u>	Other Student Identifier <u>SX1</u>
Next Most Recent Mathematics A Examination Taken by Eligible Student	Most Recent Mathematics A Examination Taken by Eligible Student
Date <u>June 2003</u> Score <u>53</u>	Date <u>January 2004</u> Score <u>51</u>

Student X took the Mathematics A Examination in June 2003 and received a final score of 53. The student retook the examination in January 2004 and received a final score of 51. 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 (see next page). This table shows that Student X's weakness pattern for both examinations is 4, 5, & 6 and 5, 6. Since Student X's higher score was 53, Student X must retest on two components. Based on Table D, this student should take components 5 and 6 in April 2004.

Part of Table A for Student X

January 2004					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	2	2	2	10	9
	4	2	–		
	9	2	2		
	10	2	2		
	17	2	–		
	18	2	–		
	20	2	2		
Component 5	21	2	2		
	27	2	–		
	8	2	–	3	6
26	2	–			
31	2	2			
32	2	–			
33	2	–			
37	3	1			
Component 5	38	4	–		
	5	2	–	2	3
	24	2	–		
35	2	2			
<i>Uncertainty</i> Component 6	1	2	2	6	6
	12	2	–		
	19	2	2		
	25	2	–		
	36	3	–		
	39	4	2		
Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7					

June 2003						
Key Idea/ Component	Item Number	Credit	Student Score	Component Score		
				Sum	Criterion	
<i>Modeling/ Multiple Representation</i> Component 4	7	2	2	4	5	
	9	2	–			
	24	2	–			
	25	2	2			
	27	3	–			
	32	4	–			
<i>Measurement</i> Component 5	2	2	–	3	6	
	21	2	–			
	22	2	–			
	30	3	1			
Component 5	31	4	–			
	34	4	2			
	5	2	–	2	3	
	20	2	2			
29	3	–				
<i>Uncertainty</i> Component 6	10	2	2	9	7	
	11	2	–			
	13	2	2			
	23	2	–			
	26	3	1			
	33	4	2			
Component 7	35	4	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 B for Student X

Junior/Senior Name Student X Other Student Identifier SX1

Table B for Student X

Next Most Recent Mathematics A Examination Taken				Most Recent Mathematics A Examination Taken			
Date: <u>June 2003</u> Final Score: <u>53</u>				Date: <u>January 2004</u> Final Score: <u>51</u>			
Component	Key Idea	Component Score		Component	Key Idea	Component Score	
		Sum	Criterion			Sum	Criterion
4	Modeling/Multiple Representation	4	5	4	Modeling/Multiple Representation	10	9
5	Measurement	3	6	5	Measurement	3	6
6	Uncertainty	2	3	6	Uncertainty	2	3
7	Patterns/Functions	9	7	7	Patterns/Functions	6	6
Weak Component(s): <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7				Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7			
Component(s) to Retest: <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input type="checkbox"/> 7							

Junior/Senior Worksheet A for Student Y

Junior/Senior Name Student Y

Other Student Identifier SY2

Next Most Recent Mathematics A Examination Taken by Eligible Student

Most Recent Mathematics A Examination Taken by Eligible Student

Date June 2003 Score 49

Date January 2004 Score 56

Student Y took the Mathematics A Examination in June 2003 and received a final score of 49. The student retook the examination in January 2004 and received a final score of 56. Table A below lists Student Y'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 (see next page). This table shows that Student Y's weakness pattern for both examinations is 4, 6, & 7 and 5, 7. Since Student Y's higher score was 56, Student Y must retest on one component. Based on Table D, this student should take component 7 in April 2004.

Part of Table A for Student Y

January 2004					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	2	2	–	10	9
	4	2	2		
	9	2	–		
	10	2	2		
	17	2	2		
	18	2	2		
	20	2	–		
	21	2	2		
<i>Measurement</i> Component 5	8	2	–	4	6
	26	2	–		
	31	2	2		
	32	2	–		
	33	2	–		
	37	3	2		
<i>Uncertainty</i> Component 6	5	2	2	4	3
	24	2	2		
	35	2	–		
<i>Patterns/ Functions</i> Component 7	1	2	–	3	6
	12	2	–		
	19	2	2		
	25	2	–		
	36	3	1		
39	4	–			
Weak Component(s): <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7					

June 2003					
Key Idea/ Component	Item Number	Credit	Student Score	Component Score	
				Sum	Criterion
<i>Modeling/ Multiple Representation</i> Component 4	7	2	2	4	5
	9	2	–		
	24	2	–		
	25	2	–		
	27	3	1		
	32	4	1		
<i>Measurement</i> Component 5	2	2	–	7	6
	21	2	–		
	22	2	2		
	30	3	3		
<i>Uncertainty</i> Component 6	31	4	2	2	3
	34	4	–		
	5	2	–		
	20	2	2		
<i>Patterns/ Functions</i> Component 7	29	3	–	5	7
	10	2	–		
	11	2	–		
	13	2	2		
	23	2	2		
26	3	–			
33	4	1			
35	4	–			
Weak Component(s): <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7					

Senior Worksheet B for Senior Y

Junior/Senior Name Student Y **Other Student Identifier** SY2

Table B for Senior Y

Next Most Recent Mathematics A Examination Taken				Most Recent Mathematics A Examination Taken			
Date: <u>June 2003</u> Final Score: <u>49</u>				Date: <u>January 2004</u> Final Score: <u>56</u>			
Component	Key Idea	Component Score		Component	Key Idea	Component Score	
		Sum	Criterion			Sum	Criterion
4	Modeling/Multiple Representation	4	5	4	Modeling/Multiple Representation	10	9
5	Measurement	7	6	5	Measurement	4	6
6	Uncertainty	2	3	6	Uncertainty	4	3
7	Patterns/Functions	5	7	7	Patterns/Functions	3	6
Weak Component(s): <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input checked="" type="checkbox"/> 6 <input checked="" type="checkbox"/> 7				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 type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7							