



AP Calculus AB – 7.1 Integral as Net Change Project Rubric

The 7.1 Project is a unique strategy to assist students in learning how to interpret math. This method will also give students a chance to think and internalize previous knowledge and newly acquired concepts.

- Each class will be divided into 7 **groups** that cover the Chapter sections for chapter 7.1 and the Review for Unit 7.

(After each presentation, the class will rank the presenters.)

Groups	1	2	3	4	5	6	7
Chapter 7.1	p.379 Examples 1 & 2	p. 381 Example 3	p. 382 Example 4	p. 383 Example 5	p. 384 Net Change	p. 384 Work	Unit 7 Review (2 students)

- Each group will demonstrate the mathematical concepts that are in each pre-selected chapter section in a creative, informative, and engaging oral presentation.

- The following are some items of interest to consider:

<p align="center">Learning Styles</p>			Learning Pyramid	
			Lecture	5%
Verbal / Linguistic	Logical / Mathematical		Reading	10%
Visual / Spatial	Bodily / Kinesthetic		Audio-Visual	20%
Musical / Rhythmic	Intrapersonal		Demonstration	30%
Interpersonal	Naturalist		Discussion Group	50%
			Practice by Doing	75%
			Teach Others/Immediate Use of Learning	90%
National Training Laboratories Bethel, Maine				

- Good Luck & Have Fun!
- Evaluation Sheet Format:

<p align="center">Each group member will complete an evaluation of his/her group members – GIVE SPECIFIC EXAMPLES IN THE SUPPORTIVE STATEMENTS to JUSTIFY Score. <i>The Instructor reserves the right to make the final numerical grade selection for each individual and group.</i></p>		<p align="center">Your Name _____</p>		
<p>“Like Group Members”</p> <p>1st Column is a list of “Like Group Members” (List all names in Alphabetical 1st Name Order)</p>	<p>“Jigsaw Group Members”</p> <p>2nd Column is a list of Jigsaw Group Members (List all names in the order of presentations)</p>			
<p>Give at least 3 things that each person did to contribute to the group</p> <table border="1" style="width: 100%;"> <tr> <td align="center">Name & Score</td> </tr> </table> <p>Give at least 3 things that each person did well Give at least 3 things that each person needs to improve (Give each person a score – either 100, 90, 80, 70, 60, 50, 40, 30, 20, or 0 – no two people can have the same score.)</p>	Name & Score	<p>Give at least 3 things that each person did well</p> <table border="1" style="width: 100%;"> <tr> <td align="center">Name & Score</td> </tr> </table> <p>Give at least 3 things that each person needs to improve (Give each person a score that is a multiple of 5 from 95 to 0 – no two people can have the same score.)</p>	Name & Score	
Name & Score				
Name & Score				



6. Presentation Categories to consider:

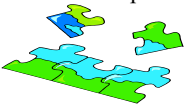

Peer Review & Evaluation Form					
Consider the following categories during each presentation					
Voice is audible	Content of Speech is convincing	Formal or Serious Tone used	Nervous gestures used	Within time limit	Use of hand motions to emphasize points
Eye contact is used	Is prepared to give lesson/speech		Needs more practice		Speech is fluid and paced well

Jigsaw Method Overview

The Jigsaw Method is a unique strategy to assist students in learning how to interpret math. This method will also give students a chance to think and internalize previous knowledge and newly acquired concepts.

- Each student needs to complete a Jagged Personality Profile.
- Each class will be divided into groups that contain 6 students that will cover Chapter 7.1 and 2 Review Floaters.

(Each Review Floater will have a base group and will share ½ of the Review Material w/ the 3rd Group.)

<p>Wednesday – Dec 19th Friday – Dec 21st Thursday – Jan 3rd</p> <p>“Like Groups”</p> 	Design a written Lesson Plan/ Instructional approach in “Like Section Groups” (Lesson Plan format needs section examples, independent practice problems other than homework problems, and a summary of the section.) Decide on specific examples in addition to the Example from the Textbook Neatly make a detailed Lesson Plan (Handouts, Power Point, & Visual Aids optional) Textbooks will be collected on Jan 7 th to assess Book Fines.		
	Dec 19 th Discuss Jigsaw Project / Assign sections to students	Dec 21 st ½ Period = Design Lesson Plan for Specific Selected Topic (Early Release Day)	Jan 3 rd ½ Period = Finish the Lesson Plan Structure & Conduct a “Trial Run” on your Group Members
<p>Monday – Jan 7th</p> <p>“Jigsaw Groups”</p>  <p>Teach Chapter 7.1 & Unit 7 Review</p>	Instructor divides the class into groups that represent Chapter 7.1 and UT 7 Review Begin to teach 7.1 Examples and UT 7 Review Instructor checks Lesson Plans/Instructional approaches HW – Two Column Evaluation Sheet		
	1 st Column is a list of “Like Group Members” (List all names in Alphabetical 1 st Name Order)	2 nd Column is a list of Jigsaw Group Members (List all names in the order of presentations)	
Tuesday – Jan 8th	Unit Test 7		
Wednesday – Jan 9th	Turn in Evaluation Sheet from each Student – fold in half and put it in Ms. Blackwell’s Door Pocket by Wednesday Morning before 1 st Period!!!		
Thursday – Jan 10th	Final Exam Review Game Project Presentations – Part 1		
Friday – Jan 11th	Final Exam Review Game Project Presentations – Part 2		
	Final Exams Begin		

3. Grading Scale:

20 pts	Lesson Plans & Math Content
20 pts	Instruction to Group (Individual Grade)
20 pts	Teamwork (“Like Group”)
20 pts	Creativity & Presentation
10 pts	Promptness
10 pts	Group Member’s Evaluation Rankings

4. Good Luck & Have Fun!