Calculus AB Schedule-- Unit 7 Applications of the Definite Integral

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 23				*22-Feb*	*23-Feb*
Lesson				8.1 Area Between Graphs	8.1 Area Between Graphs **Black History Month Assembly?**
HMWK				**HW1**--p.579 #1,3, 5,8,11, AP Practice #1	**HW2**--p.579 #13, 15, AP Practice #2,5,9 (check all answers in calculator)

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 24	*26-Feb*	*27-Feb*	*28-Feb*	*1-Feb*	*1-Mar*
Lesson	8.1 Area Between Graphs	*LATE START* 8.4 Volume of a Solid: Slicing	8.4 Volume of a Solid: Slicing **Quiz 8.1**	8.2 Volume of a Solid: Disks	8.2 Volume of a Solid: Disks
HMWK	**HW3**--p.579 #21, 23, AP Practice #3, Calculator #58c,59c, AP Practice #10	**HW4**--p.610 #7, AP Practice #2,5 **Study for Quiz 8.1**	**HW5**--p.610 #8, AP Practice #3,8ad	**HW6**--p.593 #1,5, 13,23,38, AP Practice #1	**HW7**--p.593 #6,7, 15,41, AP Practice #2

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 25	*4-Mar*	*5-Mar*	*6-Mar*	*7-Mar*	*8-Mar*
Lesson	**NO SCHOOL --** Casimir Pulaski Day	8.2 Volume of a Solid: Washers	8.2 Volume of a Solid: Washers	8.2 Volume of a Solid: Disks & Washers	*Unit 7 Review (Book Chapter 8)*
HMWK	**No Additional Homework**	**HW8**--p.593 #17, 33,34,39, AP Practice #8	**HW9**--p.593 #10, 42,50abc, AP Practice #4,9, Calculator #43,53	**HW10**--p.593 #9, 13,35,40, Calculator p.593 #46	**HW11**--p.632 #1,5, 6,8, AP Practice #1,2,7

	Monday	Tuesday	Wednesday
Week 26	*11-Mar*	*12-Mar*	*13-Mar*
Lesson	*Unit 7 Review (Book Chapter 8)*	**NO SCHOOL --** Teacher Institute Day	**Unit 7 TEST**
HMWK	**Study for Test**	**No Additional Homework**	**No Additional Homework**

Calculus AB Schedule-- Unit 7 Applications of the Definite Integral

Unit 7: Applications of Definite Integrals

CHA-5

Definite integrals allow us to solve problems involving the accumulation of change in area or volume over an interval.

LEARNING OBJECTIVE

CHA-5.A
Calculate areas in the plane using the definite integral.

CHA-5.A
Calculate areas in the plane using the definite integral.

CHA-5.A
Calculate areas in the plane using the definite integral.

CHA-5.B
Calculate volumes of solids with known cross sections using definite integrals.

CHA-5.B
Calculate volumes of solids with known cross sections using definite integrals.

ESSENTIAL KNOWLEDGE

CHA-5.A.1
Areas of regions in the plane can be calculated with definite integrals.

CHA-5.A.2
Areas of regions in the plane can be calculated using functions of either x or y.

CHA-5.A.3
Areas of certain regions in the plane may be calculated using a sum of two or more definite integrals or by evaluating a definite integral of the absolute value of the difference of two functions.

CHA-5.B.1
Volumes of solids with square and rectangular cross sections can be found using definite integrals and the area formulas for these shapes.

CHA-5.B.2
Volumes of solids with triangular cross sections can be found using definite integrals and the area formulas for these shapes.

CHA-5.B.3
Volumes of solids with semicircular and other geometrically defined cross sections can be found using definite integrals and the area formulas for these shapes.

CHA-5.C
Calculate volumes of solids of revolution using definite integrals.

CHA-5.C
Calculate volumes of solids of revolution using definite integrals.

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Calculate volumes of solids of revolution using definite integrals.

CHA-5.C
Calculate volumes of solids of revolution using definite integrals.

CHA-5.C.1
Volumes of solids of revolution around the x- or y-axis may be found by using definite integrals with the disc method.

CHA-5.C.2
Volumes of solids of revolution around any horizontal or vertical line in the plane may be found by using definite integrals with the disc method.

CHA-5.C.3
Volumes of solids of revolution around the x- or y-axis whose cross sections are ring shaped may be found using definite integrals with the washer method.

CHA-5.C.4
Volumes of solids of revolution around any horizontal or vertical line whose cross sections are ring shaped may be found using definite integrals with the washer method.