Fourth Quarter Assignments
AP Calculus AB / IB Mathematics Analysis & Approaches SL

W-Th, Mar. 6-7 **AP Free Response practice exam**	*Goals*	Determine the areas of AP Calculus that need the most review before the exam in May.
	Assignment	**Practice Exam, AP Calculus Free Response Questions**
Fri., Mar. 8 **Early release (B)** **End of third quarter**	*Goals*	Determine the areas of AP Calculus that need the most review before the exam in May.
	Assignment	Make a plan to improve your understanding of AP calculus topics; resiliency lessons
Mon., Mar. 18 AP Quiz 6, FR recap	*Goals*	Determine the areas of AP Calculus that need the most review before the exam in May.
	Assignment	**AP Quiz 6;** make a plan to improve your understanding of AP calculus topics
Tues., Mar. 19 Number & algebra, functions	*Goals*	Determine what Number & Algebra and Functions topics you need to know for the IB exam.
	Assignment	**Number & Algebra, Functions** worksheet
W-Th, Mar. 20-21 **AP MC no calculator practice exam**, Geometry & trig	*Goals*	Determine the geometry and trigonometry topics you need to know for the IB exam.
	Vocabulary	amplitude, period
	Assignment	**Practice Exam, AP Calculus AB multiple choice section,** *no* **calculator;** **Geometry and Trigonometry** worksheet (due Monday)
Fri., Mar. 22 Geometry & trig	*Goals*	Determine the geometry and trigonometry topics you need to know for the IB exam.
	Assignment	**Geometry and Trigonometry** worksheet
Mon., Mar. 25 Probability	*Goals*	Decide what probability topics you need to know for the IB exam.
	Vocabulary	independent, mutually exclusive, conditional probability, intersection, union
	Assignment	**Probability and the Binomial Distribution** worksheet (due Wed./Thurs.)
Tues., Mar. 26 Probability; AP Quiz 7	*Goals*	Decide what probability topics you need to know for the IB exam.
	Assignment	**Probability and the Binomial Distribution** worksheet; **AP Quiz 7**
W-Th, Mar. 27-28 Statistics	*Goals*	Determine what statistics topics you need to know for the IB exam.
	Vocabulary	cumulative frequency, interquartile range
	Assignment	**Statistics and The Normal Distribution** worksheet (due Tuesday)
Mon., Apr. 1 **AP MC calculator practice exam**	*Goals*	Determine the areas of AP Calculus that need the most review before the exam in May.
	Assignment	**Practice Exam, AP Calculus AB multiple choice section, calculator-active**
Tues., Apr. 2 Limits & continuity	*Goals*	Find limits algebraically, numerically, and geometrically.
	Assignment	**Limits and Continuity** worksheet
W-Th, Apr. 3-4 **Vocab posttest** Derivatives	*Goals*	Differentiate functions using definition of derivative, product, quotient and chain rules, and implicit differentiation.
	Assignment	**Vocabulary posttest; Derivatives** worksheet (due Monday)
Fri., Apr. 5 Limits posttest Appl. Derivatives	*Goals*	Determine the areas of AP Calculus that still need review before the exam in May. Use derivatives to solve a variety of problems including optimization and related rates.
	Assignment	Make a plan for correcting your deficiencies in calculus. **Limits posttest; Applications of Derivatives** worksheet (due Tuesday)
Mon., Apr. 8 Appl. Derivatives	*Goals*	Use derivatives to solve a variety of problems including optimization and related rates.
	Assignment	**Applications of Derivatives** worksheet
Tues., Apr. 9 Integrals	*Goals*	Integrate functions using Riemann sums and antidifferentiation techniques.
	Vocabulary	Riemann sum, limits of integration, integrand
	Assignment	**Integrals** worksheet (due next Tuesday)
W-Th, Apr. 10-11 **IB Paper 1 practice exam**	*I will be out of town Thursday for A-Team.*	
	Goals	Evaluate your preparation for the IB Mathematics A&A SL exam.
	Assignment	**Practice Exam, IB Mathematics A&A SL, no calculator**
Fri., Apr. 12 **Early release (A)**	*I will be out of town Friday for A-Team.*	
	Goals	Integrate functions using Riemann sums and antidifferentiation techniques.
	Assignment	**Integrals** worksheet (due Tuesday)
Mon., Apr. 15 Integrals	*Goals*	Integrate functions using Riemann sums and antidifferentiation techniques.
	Assignment	**Integrals** worksheet
Tues., Apr. 16 Appl. Integrals	*Goals*	Solve problems involving integration techniques and applications of integration.
	Vocabulary	representative rectangle, disc method
	Assignment	**Applications of Integrals** worksheet (due next Tuesday)
W-Th, Apr. 17-18 **IB Paper 2 practice exam**	*Goals*	Evaluate your preparation for the IB Mathematics A&A SL exam.
	Assignment	**Practice Exam, IB Mathematics A&A SL, with calculator**
Fri., Apr. 19 Appl. Integrals	*Goals*	Solve problems involving integration techniques and applications of integration.
	Assignment	**Applications of Integrals** worksheet (due next Tuesday)

Mon., Apr. 22 Appl. Integrals	*Goals* *Assignment*	Solve problems involving integration techniques and applications of integration. **Applications of Integrals** worksheet
Tues., Apr. 23 Paper 1/2 recap	*Goals* *Assignment*	Evaluate your preparation for the IB Mathematics A&A SL exam. Make a plan for correcting your deficiencies in math A&A SL.
W-Th, Apr. 24-25 Paper 2 recap	*Goals* *Assignment*	Evaluate your preparation for the IB Mathematics A&A SL exam. Make a plan for correcting your deficiencies in math A&A SL.
Fri., Apr. 26 **Early release (B)**	IB Business Management and IB Philosophy exams (paper 1) are Friday afternoon	
	Goals *Assignment*	Evaluate your preparation for the IB Mathematics A&A SL and AP Calculus AB exams. Pass the AP Calculus and IB Math A&A SL exams.
Mon., Apr. 29 More review for IB, AP	*Goals* *Assignment*	Evaluate your preparation for the IB Mathematics A&A SL and AP Calculus AB exams. Pass the AP Calculus and IB Math A&A SL exams.
Tues., Apr. 30 Last review for IB Math	*Goals* *Assignment*	Evaluate your preparation for the IB Mathematics A&A SL and AP Calculus AB exams. Pass the AP Calculus and IB Math A&A SL exams.
W-Th, May 1-2 IB Math!	IB Business Management and IB Philosophy exams (paper 2) are Wednesday morning ***IB Mathematics exams are Wednesday afternoon and Thursday morning***	
Fri., May 3 Last review for AP Calc with everyone	*Goals* *Assignment*	Evaluate your preparation for the AP Calculus AB exam. Pass the AP Calculus and IB Math A&A SL exams.
Mon., May 6	pm: IB German, AP Chemistry	
Tues., May 7	am: IB German pm: IB History, AP Stats	
W-Th, May 8-9	Wed. am: IB History, AP English Lit Wed. pm: IB Chemistry, AP Comp Sci A Thurs. am: IB Chemistry Thurs. pm: IB English	
Fri., May 10	am: IB English, AP USH	
Mon., May 13 AP Calculus! Seniors' last day	am: ***AP Calculus AB*** pm: IB Biology	
Tues., May 14	am: IB Biology pm: IB Spanish	
W-Th, May 15-16	am: IB Spanish pm: IB World Religions am: IB World Religions pm: AP Biology	
The assignments that follow are for juniors only, after their exams have finished. They are subject to change.		
Fri., May 17 Polar graphing	*Goals* *Assignment*	Use polar coordinates to locate points. Graph polar functions. **Polar Graphing** worksheet
Mon., May 20 Polar graphing	*Goals* *Assignment*	Use polar coordinates to locate points. Graph polar functions. Produce the coolest polar graph you can and turn in its Desmos link on Schoology
Tues., May 21 Vectors	*Goals* *Assignment*	Use vectors to represent quantities involving magnitude and direction, particularly in the context of motion. Extend calculus concepts to vector-valued functions. **Vectors** worksheet
W-Th, May 22-23 Taylor & Maclaurin polynomials	*Goals* *Assignment*	Use calculus to help write polynomials that mimic other types of functions. **Taylor and Maclaurin Polynomials** worksheet
Fri., May 24 Taylor & Maclaurin polynomials	*Goals* *Assignment*	Use calculus to help write polynomials that mimic other types of functions. **Taylor and Maclaurin Polynomials** worksheet
Tues., May 28 Improper integrals	*Goals* *Assignment*	Use limits to evaluate integrals of functions with asymptotes. **Improper Integrals** worksheet
W-Th, May 29-30 **Thurs early release (B),** **end of semester** Integration by parts	*Goals* *Assignment*	Evaluate integrals using integration by parts. **Integration by Parts** worksheet