## Advanced Placement Environmental Science Syllabus - Spring 2019

Course Description: Modified from http://www.collegeboard.com - your site for AP course information:					
AP Environmental Science	AP Environmental Science is designed to be the equivalent of a one-semester, introductory college course				
in environmental science.	The goal of the AP Environmental Scie	nce course is to provide students with the			
scientific concepts, princip	ples, and methodologies required to ur	nderstand the interrelationships of the			
natural world, to identify	and analyze environmental problems b	oth natural and human-made, to evaluate			
the relative risks associate	ed with these problems, and to examin	e alternative solutions for resolving or			
preventing them. To achie	eve these goals, we will focus on the fo	llowing: personal experience in			
experimental design; unde	erstanding the unifying themes that int	egrate all biological and environmental			
science topics; and the ap	plication of knowledge and critical thi	nking to environmental and societal			
concerns. This will include	e experimental design, labs, in-class in	structional activities, and practice AP			
exam materials (multiple choice and free response prompts).					
Textbook: \$141.28	by Andrew Friedl	and and Rick Relyea			
Environmental Science for	AP 2015, second edit	tion			
Online resources:					
Students will have access	to many resources at <u>AP Central</u>				
https://apstudent.college	board.org/apcourse/ap-environmental	-science			
Students are encouraged t	o explore the available resources.				
Grade Weights:	Formative Assessments are samples of	Summative Assessments are major			
• Informal 0%	student work before, during, and after	culminating tasks such as projects, research,			
• Class Grades 80%	instruction that identify academic	essays, labs, portfolio, tests, etc.			
<ul> <li>Formative 29%</li> </ul>	needs and help provide continuous				
<ul> <li>Summative 71%</li> </ul>	reedback to students. These	Informal Activities: Non-weighted practice			
• Final Exam 20%	limited to study guides, guided reading	opportunities that will assist the student in mastering the standards			
	questions journal writing projects	mastering the standards.			
	hands-on activities, quizzes,				
	homework, etc.				
AP Test Information:	·				

The APES test is scheduled for Monday, May 6, 2019, at 12:00 noon.

Information about the test, including registration and fees are available on the AP Central page. Course and test registration will be covered in class.

The Nature of Science: Please review the expectations below. Students in this course are expected to...

- 1. ...use representations and models to communicate scientific phenomena and solve scientific problems.
- 2. ... use mathematics appropriately.
- 3. ...engage in scientific questioning to extend thinking or to guide investigations within the context of the AP course.
- 4. ...plan and implement data collection strategies appropriate to a scientific question.
- 5. ...perform data analysis and evaluation of evidence.
- 6. ...work with scientific explanations and theories.
- 7. ...connect and relate knowledge across various scales, concepts and representations in and across domains.

**Course Themes**: From http://www.collegeboard.com - your site for AP course information: Although Environmental Science is interdisciplinary, there are several major unifying constructs, or themes, that are covered in the course. The following themes provide a foundation for the structure of the AP Environmental Science course...

- 1. Science is a process.
  - $_{\odot}$   $\,$  Science is a method of learning more about the world.
  - $_{\odot}$   $\,$  Science constantly changes the way we understand the world.
- 2. Energy conversions underlie all ecological processes.
  - $_{\odot}$   $\,$  Energy cannot be created; it must come from somewhere.
  - $\circ$  As energy flows through systems, at each step more of it becomes unusable.
- 3. The Earth itself is one interconnected system.
  - $_{\odot}$   $\,$  Natural systems change over time and space.
  - $_{\odot}$   $\,$  Biogeochemical systems vary in ability to recover from disturbances.
- 4. Humans alter natural systems.
  - Humans have had an impact on the environment for millions of years.
  - Technology and population growth have enabled humans to increase both the rate and scale of their impact on the environment.
- 5. Environmental problems have a cultural and social context.
  - Understanding the role of cultural, social and economic factors is vital to the development of solutions.
- 6. Human survival depends on developing practices that will achieve sustainable systems.
  - $\circ~$  A suitable combination of conservation and development is required.
  - $\circ$   $\,$  Management of common resources is essential.

**Course Topics**; <u>Modified from http://www.collegeboard.com - your site for AP course information</u>: This course covers the following topics:

# I. Earth Systems and Resources (10%-15%)

- A. Earth Science Concepts (Geologic time scale; plate tectonics, earthquakes, volcanism; seasons; solar intensity and latitude) **Chapters 1 & 2**
- B. The Atmosphere (Composition; structure; weather and climate; atmospheric circulation and the Coriolis effect; atmosphere-ocean interactions; ENSO) **Chapters 3 & 4**
- Global Water Resources and Use (Freshwater/saltwater; ocean circulation; agricultural, industrial, and domestic use; surface and groundwater issues; global problems; conservation) Chapter 9
- D. Soil and Soil Dynamics (Rock cycle; formation; composition; physical and chemical properties; main soil types; erosion and other soil problems; soil conservation) **Chapter 8**

# II. The Living World (10%-15%)

- A. Ecosystem Structure (Biological populations and communities; ecological niches; interactions among species; keystone species; species diversity and edge effects; major terrestrial and aquatic biomes) Chapters 3 & 5
- B. Energy Flow (Photosynthesis and cellular respiration; food webs and trophic levels; ecological pyramids) **Chapter 3**
- C. Ecosystem Diversity (Biodiversity; natural selection; evolution; ecosystem services) Chapter
   6
- D. Natural Ecosystem Change (Climate shifts; species movement; ecological succession) Chapters 3 & 5
- E. Natural Biogeochemical Cycles (Carbon, nitrogen, phosphorus, sulfur, water, conservation of matter) Chapters 3 & 4

- III. Population (10%-15%)
  - A. Population Biology Concepts (Population ecology; carrying capacity; reproductive strategies; survivorship) **Chapter 6**
  - B. Human Population Chapter 7
- IV. Land and Water Use (10%-15%)
  - A. Agriculture Chapters 10 & 11
  - B. Forestry (Tree plantations; old growth forests; forest fires; forest management; national forests) **Chapter 10**
  - C. Rangelands (Overgrazing; deforestation; desertification; rangeland management; federal rangelands) **Chapter 10**
  - D. Other Land Use Chapter 10
  - E. Mining (Mineral formation; extraction; global reserves; relevant laws and treaties) Chapter 8
  - F. Fishing (Fishing techniques; overfishing; aquaculture; relevant laws and treaties) Chapter 11
  - G. Global Economics (Globalization; World Bank; Tragedy of the Commons; relevant laws and treaties) Chapter 20

#### V. Energy Resources and Consumption (10%-15%)

- A. Energy Concepts (Energy forms; power; units; conversions; Laws of Thermodynamics) Chapter 12
- B. Energy Consumption Chapter 12
- C. Fossil Fuel Resources and Use (Formation of coal, oil, and natural gas; extraction/purification methods; world reserves and global demand; synfuels; environmental advantages/disadvantages of sources) **Chapter 12**
- D. Nuclear Energy (Nuclear fission process; nuclear fuel; electricity production; nuclear reactor types; environmental advantages/disadvantages; safety issues; radiation and human health; radioactive wastes; nuclear fusion) **Chapter 12**
- E. Hydroelectric Power (Dams; flood control; salmon; silting; other impacts) Chapter 12
- F. Energy Conservation (Energy efficiency; CAFE standards; hybrid electric vehicles; mass transit) **Chapter 13**
- G. Renewable Energy (Solar energy; solar electricity; hydrogen fuel cells; biomass; wind energy; small-scale hydroelectric; ocean waves and tidal energy; geothermal; environmental advantages/disadvantages) Chapter 13

## VI. Pollution (25%-30%)

- A. Pollution Types Chapters 14, 15, & 16
- B. Impacts on the Environment and Human Health Chapters 14, 15, 16, & 17
- C. Economic Impacts (Cost-benefit analysis; externalities; marginal costs; sustainability) Chapters 14, 15, & 16

## VII. Global Change (10%-15%)

- Stratospheric Ozone (Formation of stratospheric ozone; ultraviolet radiation; causes of ozone depletion; effects of ozone depletion; strategies for reducing ozone depletion; relevant laws and treaties) Chapter 15
- B. Global Warming (Greenhouse gases and the greenhouse effect; impacts and consequences of global warming; reducing climate change; relevant laws and treaties) **Chapter 19**
- C. Loss of Biodiversity Chapter 18

**Pacing Guide:** This guide is designed to keep the course on schedule to cover all required topics prior to the AP test. Objectives are aligned with the themes and topics defined by the College Board. Labs (other than those in **bold**), Instructional Activities, Field Trips and Online Discussions are subject to change.

Days	Book	Stndrds	Unit Title
			Unit One: An Introduction to Environmental Science
			Objectives
		СТ	Characterize the interdisciplinary nature of environmental science
		CT1	Understand the scientific method and nature of scientific inquiry
		CT1	Examine the influences of culture and worldview on the choices people make
		CT5	Describe the precepts of classical and neoclassical economic theory, including laissez- faire policies and cost-benefit analysis, and their implications for the environment
		CT5, 6c	Explain the fundamentals of environmental economics and ecological economics
		CT4, 4g	Compare and contrast the ideas of Thomas Malthus and Essay on the Principle of Populations, Paul and Anne Erlich and The Population Bomb, and Garrett Hardin and the "The Tragedy of the Commons"
		CT5, 6c	Compare the concepts of economic growth, economic health, and sustainability
		CT5, 6c	Analyze the internal, external, and marginal costs of economic decisions based on long- term effects and sustainability
		CT6	Outline the nature, evolution, and expansion of environmental ethics
	0	CT5, CT6	Describe environmental policy and assess its societal context
	l5, 16, & 2	4g	Identify institutions important to environmental policy such as the United Nations, the European Union, and World Bank and recognize major U.S. environmental laws such as the Environmental Policy Act, the Clean Air Act and the Clean Water Act
10	2, 14, 1	-	Delineate the steps of the environmental policy process and identify the role of science in policymaking
	s 1,		Describe the molecular building blocks of organisms
	Chapter	CT2	Differentiate among the forms of energy and apply the Laws of Thermodynamics in systems
		CT3	Distinguish photosynthesis, respiration, and chemosynthesis and summarize their importance to living things
		CT3, CT4, 1a	Recognize the importance of the fossil record to inferring the history of past life on Earth
			LABS
			Tragedy of the Commons Lab
			INSTRUCTIONAL ACTIVIES
			Calculating Your Ecological Footprint
			Three Gorges Dam Cost and Benefit Analysis
			"What Did T-rex Taste Like?" – Introduction to Phylogenies
			Online Discussions
			Ecological Footprints
			Laws of Thermodynamics and Your Daily Life
12	Ch apt		Unit Two: The Living World

			Objectives
		2c	Explain the process of natural selections and cite evidence for this process
		2c	Describe the ways in which evolution influences biodiversity
		7c	Discuss reasons for species extinction and mass extinction events and relate them to the geologic time scale <b>(Same1)</b>
		7c	Evaluate the primary causes of biodiversity loss, specify the benefits of biodiversity, assess the science and practice of conservation biology
		2a, 7c	Identify efforts and challenges involved in the conservation of biodiverisity
		2a	Compare and contrast the major types of species interactions
		2b	Characterize feeding relationships and energy flow, using them to construct trophic levels and food webs
		2b	Apply the second law of thermodynamics and the concept of biomagnifications to trophic levels
		2a	Describe fundamental and realized niches
		2a	Distinguish characteristics of a keystone species
		2d	Describe the processes of primary and secondary succession and describe pine, mixed and hardwood forests
		2d	Perceive and predict the potential impacts of invasive species in communities
		4d2	Explain the goals ecological restoration
		2a	Describe the major terrestrial biomes of the world
		2a	Define ecosystems and evaluate how living and non-living entities interact at the population, community, and ecosystem levels
		2a	Outline the fundamentals of landscape ecology and relate them to edge effects
		2e	Compare and contrast how carbon, phosphorus, nitrogen, sulfur, and water cycle through the environment and relate them to the Law of Conservation of Matter
		7c	Contrast the background extinction rates with periods of mass extinction including the sixth mass extinction scientists believe may be occurring today (Same1)
		7c	Evaluate the primary causes of biodiversity loss such as habitat alteration, invasive species, pollution, and climate change
		7c	Assess the science and practice of conservation biology and compare and contrast traditional and innovative biodiversity conservation efforts and legislation
			LABS
			Geologic Timescale Inquiry Activity
			Virtual Lab from Hippocampus- Predator/Prey Relationships
			Primary Consumer Energy Flow
			Field Activity- Primary and Secondary Succession
			INSTRUCTIONAL ACTIVIES
			Video- Historical Geology: A Glimpse of the Earth's Past
			Construction of Biomass Pyramids
			Biomes Project and Presentation
			Video- Processes and Cycles in the Environment: Hypoxia
	×~ 1		You Decide- Can We Prevent the Extinction of Species
2	1apt ; 6 8		Unit Three: Population
	ers		Objectives

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			Soil Productivity
			Soil Formation and Properties
			INSTRUCTIONAL ACTIVIES
			Plate Tectonics Investigation
			Geoblox Manipulatives- Plate Boundaries
			Films- King Corn, Food Inc., The Future of Food
			Online Discussions
			Earth's Soil Resources
			The Green Revolution and Population
			Unit Five: Land Management and Urbanization
			Objectives
		4e	Outline the process of mineral formation and extraction and identify global reserves and relevant laws and treaties
		4b	Explain the fundamentals of forest management and describe the major methods of harvesting timber
		4d	Identify major land management agencies, including those at the federal level, and the areas they manage including national forests, wilderness areas, wildlife refuges, national parks and wetlands
		4b	Explain the role of fires in forest ecosystems and describe the effects of fire suppression
		4b	Compare and contrast old growth forests, new growth forests and tree plantations in terms of biodiversity, ecosystem services, and complexity
	Chapters 8, 10, 14, & 15	4d3	Discuss the Bureau of Land Management's role in the management of federally owned rangeland in the United States
		4c	Recognize negative impacts of poorly managed livestock such as overgrazing, deforestation, and desertification
7		4d1, 4d2	Describe the scale and trends related to urbanization
		4d1, 4d5	Assess suburban and urban sprawl and the pursuit of sustainable cities
		4d2	Outline city and regional land use strategies, including those related to transportation infrastructure, effects and control measures
		6a1, 6a2	Discuss the light, noise, and heat pollution, including the heat island effect related to urban areas
			LABS
			Old Growth and New Growth Forests Field Activity
			Agriculture and Feeding a Growing Human Population
			Cookie Mining Lab
			Urban Sprawl and Zoning Lab
			INSTRUCTIONAL ACTIVIES
			Film- Yellowstone Aflame
			Film- The Greening of a Southie
			Online Discussions
			Subsidies, Soils, and Wetlands
			Smart Growth and New Urbanization
	ers , &		Unit Six: Water Use and Pollution
10	Chapte 4, 9, 11		Objectives
		1c	Delineate the distribution of freshwater on Earth

		2a	Describe the major types of freshwater and marine ecosystems
			Discuss how we use water for agricultural, industrial and domestic purposes and alter
		1c	freshwater systems
			Assess problems of both surface and groundwater water supplies worldwide and
		1c	propose solutions to address the depletion of fresh water
		6a3	Assess problems of water quality, including water pollution types, sources, causes and effects
		6a3	Propose solutions to address water pollution and promote conservation and cite legislation used to encourage such efforts including the Clean Water Act
		6a3	Explain the processes of water purification and wastewater treatment
		2a, 6a3	Marine and Coastal Systems: Resources, Impacts and Conservation
		1c	Identify physical, geographical, chemical, and biological aspects of marine environments and describe global ocean circulation
		4f	State popular aquaculture and fishing practices and review the current state of ocean fisheries and the reason for their decline
		6a3	Relate cultural eutrophication and oxygen sag to excessive nutrient concentration caused by anthropogenic sources
		6a3	Assess human impacts on marine environments and legislation designed to regulate these impacts
		6a3	Evaluate marine protected areas and reserves as innovative solutions along with other relevant laws and treaties designed to protect these ecosystems
			LABS
			Quality of Natural Waters: Biological Factors
			Quality of Natural Waters: Physical and Chemical Factors
			Wastewater Treatment
			INSTRUCTIONAL ACTIVIES
			Marine and Coastal Systems Topics Presentations
			Online Discussions
			Aging Dams
			Coastal Development
			Unit Seven: Atmospheric Science, Air Pollution, and Global Change
	oters 3, 4, 15, 18, & 19		<u>Objectives</u>
		1b	Describe the composition, structure and function of the Earth's atmosphere
7		6a1	Outline the scope of outdoor air pollution and relate its causes to natural sources and human-emitted pollutants including primary and secondary pollutants from point and non-point sources
		6a1	Discuss the processes carried out by the U.S. EPA to monitor air quality using criteria pollutants, VOC's and toxic air pollutants and describe major air pollutants and measurement units
	Cha	6a1	Relate the Clean Air Act to air quality improvements and reduced emissions and discuss other remediation and reduction strategies
		6a1	Compare and contrast the causes, formation, and consequences of industrial and photochemical smog

			Explain the formation stratospheric ozone, it protective functions regarding ultraviolet radiation, causes and effects of its depletion and identify actions such as the Montreal
		7a	Protocol taken to address it
		6a1	Define acidic deposition and explain its causes and effects
		6a1	Characterize the scope of indoor air pollution and assess potential solutions
		1b	Describe Earth's climate system and explain the many factors influencing global climate
		1b	Recognize that the sun's energy heats the atmosphere; drives air circulation; and helps determine weather, climate and seasons
		1b	Relate global wind patterns to the interactions between convection cells and the Coriolis effect
		1b	Analyze interactions between the atmosphere and the ocean that influence climate such as ENSO events
		7b	Characterize human influences on the atmosphere and global climate such as increased greenhouse gas emissions' enhancement of the greenhouse effect
		7b, 7c	Outline current and future trends and impacts of global warming including effects on wildlife
		7b	Suggest ways we may respond to climate change and cite efforts that have already been made such as the Kyoto Protocol
			LABS
			Air Pollution and Vehicle Emissions
			Acid Deposition
			Calculating Specific Heat Lab
			INSTRUCTIONAL ACTIVIES
			Video- Earth: The Biography Atmosphere Episode
			Dance of the Planet- Seasons Activity
			Coriolis Effect Demonstration
			Global Wind Belts, Convections Cells, and Pressure Cells Investigation
			Criteria Pollutants Chart
			Kinesthetic Activity- Formation of Smog and Depletion of Stratospheric Ozone
			Greenhouse Effect Demonstration
			El Nino Demonstration and Investigation
			Film- HEAT
			Online Discussions
			Montreal Versus Kyoto Protocols Discussion
			Climate Change and Human Rights Discussion
	ers 13		Unit Eight: Energy Resources and Consumption
2	apt(		Objectives
	Chố 12	CT2, 5a	Perform energy and power calculations and conversions using appropriate units

		5b	Identify the energy sources that we use and examine critical past events such as the Industrial revolution, human population growth, improvements in standards of living and energy crises
		5b	Analyze historical energy consumption, present global energy use, and future energy needs
		5c	Compare and contrast the nature, origin, extraction and use of coal, oil, natural gas and synfuels
		5c	Describe the relative abundances, reserves, and consumer demands of different fossil fuels
		5f	Specify strategies for conserving energy and enhancing efficiency to lengthen our access to fossil fuels and reduce our environmental impact including CAFE standards, hybrid vehicles, and mass transit
		5d	Compare and contrast nuclear fission and fusion
		5d	Discuss the societal debate over nuclear power including issues related to safety, radiation and human health, and radioactive wastes
		5d	Describe nuclear energy and the processes by which it can be converted into electricity
		5e	Describe the scale, methods, and impacts of hydroelectric power
		5g	Outline major sources of renewable energy and assess their potential for growth
		5g	Compare and contrast the harnessing and use of biomass, solar, wind, geothermal, and ocean energy sources
		5g	Explain hydrogen fuel cells and assess future options for energy sources and transportation
		5c-g	Evaluate the economic and environmental advantages and disadvantages of fossil fuels, nuclear energy, hydroelectric power and various other renewable energy resources
			LABS
			Field Trip- Plant Bowen (coal-burning power plant)
			Virtual Lab from Hippocampus- Nuclear Power Plant
			Solar Absorption Lab
			INSTRUCTIONAL ACTIVIES
			Energy Infobooks Presentations/Centers
			Video- 30 Days Coal Mining Episode
			Discussion of Articles- "Green Dreams" and "Grassoline at the Pump"
			Energy Calculations and Conversions Practice
			Online Discussions
			CAFE Standards
			Three-Mile Island Versus Chernobyl
	9		Unit Nine: Environmental Hazards and Waste Management
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	Cha	6b1	pollutants and categorize them as either physical, chemical, biological or cultural

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		6b2	Describe the types, abundance, distribution, and movement of toxicants in the environment including the process of biomagnification
		6b1	Discuss the study of hazards and their effects, including case histories, epidemiology, animal testing, and dose-response analysis
		6b1	Compare and contrast effects due to acute and chronic exposure to bazards
		6b1	Assess the process of risk analysis and risk management
			Describe policy and regulation of environmental bazards in the United States and
		6b2	worldwide
		6a3, 6a4, 6b2	Summarize and compare the types of waste we generate including municipal and industrial solid waste, hazardous waste, and wastewater
		6a4	Describe the conventional waste disposal methods of landfills and incineration
		6a4	List the major approaches to managing waste such as source reduction, recovery and disposal
		6b2	Identify hazardous waste as ignitable, corrosive, reactive or toxic
		6b2	Assess issues in managing hazardous waste including methods of disposal
		6b2	Relate the cleanup of sites contaminated with hazardous waste to CERLA and the Superfund program
			LABS
			Toxicity Lab- Calculating the LC50 and LD50 with Lettuce Seeds
			Bioremediation Lab
			Field Trip- Landfill and Recycling Center
			INSTRUCTIONAL ACTIVIES
			Minamata Investigation and Discussion
			Cost and Benefit Analysis of Chlorine Use
			Article- "The Chemicals Within"
			Video Clip- "The Story of Stuff"
			E-Waste Investigation using http://michaelzhao.net/eDump/
			Film- Trashed
			Online Discussions
			Toxic Computers
		L	Superfund Sites
Guaran	nteed L	aboratory li	nvestigations
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- Soil Formation and Properties
- Soil Productivity
- Population Growth with Lemna minor
- Primary Consumer Energy Flow
- Air Pollution and Vehicle Emissions
- Acid Deposition
- Agriculture and Feeding a Growing Human Population
- Wastewater Treatment

#### Behavioral Expectations, etc...

Missed work:

Your work is your responsibility!

□ If you miss a day of class, you must plan for how you will recover the lost time.

- Due to the pacing discussed above, you may not be working on the same standard as your classmates.
- $\hfill\square$  You are responsible for keeping up with your timeline and meeting your goals.

<ul> <li>Conduct &amp; Work Habit Expectations: Rules will be gone over in class. This will include procedures and consequences on tardiness, bathroom passes, and behavior expectations. All school policies in the student handbook will be followed, as well as all lab safety rules.</li> <li>COME TO CLASS PREPARED:</li> <li>Read the text and participate in online activities associated with text readings</li> <li>Students must wear closed toed shoes and goggles during labs as directed by the teacher. Students not prepared for labs will receive a zero for the lab assignment. Lab days will be announced.</li> </ul>	<ul> <li>Academic Integrity:</li> <li>All work (homework, tests, papers, projects, labs, etc.) must be your own. Cheating includes, but is not limited to <ul> <li>Submitting work copied from a friend or other outside source</li> <li>Giving work to a friend or giving/receiving excessive assistance from someone</li> <li>Accepting or giving help during a test or quiz.</li> <li>Using notes stored on a calculator without expressed permission of the teacher</li> <li>Using a cell phone or other electronic device during a summative exam. All cell phones will be stowed during exams.</li> </ul> </li> </ul>
days will be announced.	during a summative exam. All cell phones will be stowed during exams.
	Plagiarism, a form of cheating, involves presenting someone else's ideas or words, without giving credit!
<b>Plagiarism/Cheating Policy:</b> Cheating and/or plagia	rism are regarded as very serious offenses. Copying

or paraphrasing material/text from the work of another student, from published sources (i.e.: Spark Notes, magazines, newspapers, etc.) and/or from the internet without proper citation constitutes academic theft which will result in a family contact, a zero on the assignment, and an administrative referral (if the incident involves a summative assignment).

**Cell Phones:** The school cell phone policy will be enforced in this classroom.

- Use of electronic devices and headphones is only allowed before school, after school, and during lunch. Headphones during class time and class changes (in the hallway) are not permitted. Headphones worn in the hallway will result in administrative referral.
- Electronic device use in the classroom is not permitted unless indicated expressly by the teacher for academic purposes such as research or review games.

#### Tutoring and Recovery:

If you need extra help mastering a standard, attend tutoring in room 504 at the times below:

- Monday afternoon 3:30 4:00
- Thursday morning 8:00 8:30

Other times may be available by appointment. Ask your teacher. Always confirm that your teacher is available for the scheduled times before attending tutoring.

#### Review

There will be 4 mandatory after-school (3:30 - 4:30) review sessions on April 9, 16, 23, and 30. Add these dates to your calendar and plan to attend.