**Wednesday August 7, 2019**

APES: Week 1 Day 1

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Share information about yourself and learn information about others. Understand the scope of this class by paying attention to a PowerPoint about what to expect in AP Environmental Science.

**Essential Questions:** How can we work together to benefit everyone in this class and maximize learning? What is expected of you in order to earn AP credit?

**Agenda:**

* 1. Collect HW
	2. Notecards (your info)
	3. Turn in HW

**Thursday August 8, 2019**

APES: Week 1 Day 2

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Read an excerpt from Quamman’s “Song of the Dodo” and write a response to the prompt.

**Essential Questions:** What is your background in environmental topics?

**Agenda:**

1. About the Class
2. Log in to myAP website
3. Song of the Dodo

**Friday August 9, 2019**

APES: Week 1 Day 3

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Demonstrate knowledge of vocabulary related to chapter 1 by scoring well on a quiz. Discuss pictures representing environmental topics and make predictions.

**Essential Question(s):** What is your background in environmental topics?

**Agenda:**

1. Ch. 1 vocab quiz
2. Song of the Dodo
3. “Environmental Inquiry”

**Monday August 12, 2019**

APES: Week 2 Day 4

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Discuss pictures representing environmental topics and make predictions in order to determine background knowledge.

**Essential Question(s):** What is your background in environmental topics?

**Agenda:**

1. “Environmental Inquiry”
2. Ch. 1 PPt

**Tuesday August 13, 2019**

APES: Week 2 Day 5

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Answer review questions for the exam and discuss slides from chapter 1.

**Essential Question(s):** What is environmental sustainability?

**Agenda:**

1. Ch. 1 Review Questions
2. Ch. 1 PPt

**Wednesday August 14, 2019**

APES: Week 2 Day 6

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Students will demonstrate knowledge of information from Chapter 1 by scoring well on an exam. Students will listen to information about historic oil spills and learn about the methods for clean-up.

**Essential Questions:** Did you study?

**Agenda:**

1. Chapter 1 Exam
2. Oil Spill Background information

**Thursday August 15, 2019**

APES: Week 2 Day 7

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Students will listen to information about historic oil spills and learn about the methods for clean-up.

**Essential Questions:** What are the issues surrounding environmental cleanup?

**Agenda:**

1. Oil Spill Background information
2. Brainstorm clean-up methods
3. Read through lab

**Friday August 16, 2019**

APES: Week 2 Day 8

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Model an oil spill and test various clean-up methods. Analyze results from oil company and environmental perspectives.

**Essential Questions:** What are the issues surrounding environmental cleanup?

**Agenda:**

1. Model an oil spill
2. Clean up
3. Analysis

**Monday August 19, 2019**

APES: Week 3 Day 9

**Standard**: Become familiar with classmates and class norms and understand the scope of this class.

**Learning Target**: Analyze results of oil spill clean-up from oil company and environmental perspectives. Write responses to a practice FRQ.

**Essential Questions:** What are the issues surrounding environmental cleanup?

**Agenda:**

1. Analysis (oil spill lab)
2. 2015-3 FRQ

**Tuesday August 20, 2019**

APES: Week 3 Day 10

**Standard**: Oil Spills/Environmental Ethics

**Learning Target**: Score an FRQ to understand required detail.

**Essential Questions:** What are the issues surrounding environmental cleanup?

**Agenda:**

1. Ch. 2 Vocab Quiz

2. Score FRQ (2015-3)

3. Ch. 2 PowerPoint

**Wednesday August 21, 2019**

APES: Week 3 Day 11

**Standard:** Environmental Ethics

**Learning Target**: Learn about and discuss influential philosophers of nature and historical events leading to the creation of environmental science as a field of study.

**Essential Questions:** Who are some of the most influential philosophers of nature? What lasting impacts did they make in terms of environmental science?

**Agenda:**

1. “Positive vs. Negative” review questions

2. Ch. 2 PowerPoint

**Thursday August 22, 2019**

APES: Week 3 Day 12

**Standard:** Environmental Ethics

**Learning Target**: Learn about and discuss influential philosophers of nature and historical events leading to the creation of environmental science as a field of study.

**Essential Questions:** Who are some of the most influential philosophers of nature? What lasting impacts did they make in terms of environmental science?

**Agenda:**

1. Map It!

2. Finish Ch. 2 PowerPoint

**Friday August 23, 2019**

APES: Week 3 Day 13

**Standard:** Environmental Ethics

**Learning Target**: Demonstrate knowledge of influential philosophers of nature by scoring well on a quiz and learn about and discuss historical events leading to the creation of environmental science as a field of study.

**Essential Questions:** Who are some of the most influential philosophers of nature? What lasting impacts did they make in terms of environmental science?

**Agenda:**

1. Ch. 2 quiz

2. History PPT

3. Laws and Treaties

**Monday August 26, 2019**

APES: Week 4 Day 14

**Standard:** Environmental Ethics

**Learning Target**: Estimate your carbon footprint and review the history of events leading up to environmental science.

**Essential Questions:** What contributes to your carbon footprint?

**Agenda:**

1. Carbon Footprint activity

2. History PPT cont.

**Tuesday August 27, 2019**

APES: Week 4 Day 15

**Standard:** Environmental Ethics

**Learning Target**: Predict which activities have higher risk of death and review the history of events leading up to environmental science.

**Essential Questions:** What factors determine risk?

**Agenda:**

1. “Which is more likely to result in Death?” PPT

2. History PPT cont.

3. Highlighted key laws and treaties in packets

**Wednesday August 28, 2019**

APES: Week 4 Day 16

**Standard:** Environmental Ethics

**Learning Target**: Practice writing numbers in scientific notation and review the history of events leading up to environmental science.

**Essential Questions:** What events lead up to making environmental science a topic to be studied?

**Agenda:**

1. Scientific notation Part 1 (converting #’s into and out of)

2. History PPT finished.

**Thursday August 29, 2019**

APES: Week 4 Day 17

**Standard:** Environmental Risk, Economics and Concerns

**Learning Target**: Practice multiplying and dividing numbers in scientific notation and discuss concepts related to environmental risk, economics and concerns.

**Essential Questions:** What are some renewable and non-renewable energy sources?

**Agenda:**

1. Scientific notation warm-up:

2. Scientific notation Part 2 (multiplying and dividing in scientific notation)

3. Ch. 3 PPT (Through energy activity)

**Friday August 30, 2019**

APES: Week 4 Day 18

**Standard:** Environmental Risk, Economics and Concerns

**Learning Target**: Practice multiplying and dividing numbers in scientific notation and discuss concepts related to environmental risk, economics and concerns.

**Essential Questions:** What are some renewable and non-renewable energy sources?

**Agenda:**

1. Scientific notation warm-up:

2. Ch. 3 PPT (with Noise Pollution Article and summary)

**Tuesday September 3, 2019**

APES: Week 5 Day 19

**Standard**: Tragedy of the Commons

**Learning Target**: Simulate how individuals might utilize one or more common resources and the potential outcomes of various resource use approaches.

**Essential Questions:** Why are resources that are owned and used in common by many people typically overexploited?

**Agenda:**

**1.** “Fishing” Lab

**Wednesday September 4, 2019**

APES: Week 5 Day 20

**Standard**: Tragedy of the Commons

**Learning Target**: Simulate how individuals might utilize one or more common resources and the potential outcomes of various resource use approaches.

**Essential Questions:** Why are resources that are owned and used in common by many people typically overexploited?

**Agenda:**

1.Ch. 3 Vocab (turn in HW)

2**.** “Fishing” Lab Analysis

3. Finish Chapter 3 PPT

**Thursday September 5, 2019**

APES: Week 5 Day 21

**Standard**: Scientific Notation

**Learning Target**: Demonstrate ability to multiply and divide in scientific notation by scoring well on a test. Discuss topics from Chapter 3.

**Essential Questions:**

**Agenda:**

**1.** Scientific Notation Quiz

**2.** Finished Ch. 3 PPT

Assigned Chapter 4 HW: Read chapter and answer # 2, 5, 7 and 10 Due Sept 17th (Tuesday)

**Friday September 6, 2019**

APES: Week 5 Day 22

**Standard**: Ch. 4

**Learning Target**: Discuss information about Matter, Energy and the Environment and answer a practice FRQ question to set up an experiment. Discuss and annotate answers.

**Essential Questions:** What is the difference between an independent and a dependent variable?

**Agenda:**

**1.** Ch. 4 PPT

**2.** 2012 FRQ (#3)

**3**. Score/Discuss FRQ

**Monday September 9, 2019**

APES: Week 6 Day 23

**Standard**: Ch. 4

**Learning Target**: Discuss information about Matter, Energy and the Environment and answer a practice FRQ question to set up an experiment. Discuss and annotate answers.

**Essential Questions:** What is the difference between an independent and a dependent variable?

**Agenda:**

**1.** Finish scoring/discussing 2012 FRQ (#3)

**2.** Ch. 4 PPT

**Tuesday September 10, 2019**

APES: Week 6 Day 24

**Standard**: Ch. 4

**Learning Target**: Discuss information about Matter, Energy and the Environment and answer review questions about scientific experiments.

**Essential Questions:** What is the difference between an independent and a dependent variable?

**Agenda:**

**1.** Review questions (scientific method)

**2.** Ch. 4 PPT (with Pseudoscience “round-robin” and Photosynthesis contest)

**Wednesday September 11, 2019**

APES: Week 6 Day 25

**Standard**: Ch. 4

**Learning Target**: Discuss information about Matter, Energy and the Environment and answer a challenge question collaboratively.

**Essential Questions:** What is the difference between an independent and a dependent variable?

**Agenda:**

**1.** Whiteboard competition (cellular respiration)

**2.** Ch. 4 PPT

**Thursday September 12, 2019**

APES: Week 6 Day 26

**Standard**: Ch. 5

**Learning Target**: Discuss information from chapter 5 and participate in a “Give one-get one” activity to share ideas.

**Essential Questions:** How can abiotic or biotic factors potentially limit a population?

**Agenda:**

**1.** “Stand up/Sit down” warm-up

2. Chapter 5 PPT

**Friday September 13, 2019**

APES: Week 6 Day 27

**Standard**: Ch. 5

**Learning Target**: Discuss information from chapter 5 and watch a video about the long-term research conducted on Daphne Major.

**Essential Questions:** What evidence is there for the evolution of the Galapagos finches?

**Agenda:**

**1.** Ch. 5

2. “Galapagos Finches” (HHMI)

**Monday September 16, 2019**

APES: Week 7 Day 28

**Standard**: Ch. 5 (biology review)

**Learning Target**: Model natural selection in squirrels to distinguish between generalists and specialists and recognize adaptive advantages in animals and plants.

**Essential Questions:** What is the difference between generalists and specialists and which has a higher survival advantage?

**Agenda:**

**1.** “Squirreling Away” lab

**Tuesday September 17, 2019**

APES: Week 7 Day 29

**Standard**: Ch. 5 (biology review)

**Learning Target**: Analyze data from modeling natural selection in squirrels to distinguish between generalists and specialists and recognize adaptive advantages in animals and plants. Review topics from biology by discussing the chapter 5 PowerPoint.

**Essential Questions:** What is the difference between generalists and specialists and which has a higher survival advantage?

**Agenda:**

**1. Warm-up:** 

**2.** “Squirreling Away” lab analysis

3. Ch. 5 PPT

**Wednesday September 18, 2019**

APES: Week 7 Day 30

**Standard**: Ch. 5 (biology review)

**Learning Target**: Demonstrate understanding of energy related vocabulary by scoring well on a vocabulary quiz and review topics from biology by discussing the chapter 5 PowerPoint.

**Essential Questions:** What is the difference between generalists and specialists and which has a higher survival advantage?

**Agenda:**

**1.** Ch. 4 vocab quiz

**2.** Ch. 5 PPT

**Thursday September 19, 2019**

APES: Week 7 Day 31

**Standard**: Ch. 5 (biology review)

**Learning Target**: Model evolution in Pepper Moths and review topics from biology by discussing the chapter 5 PowerPoint.

**Essential Questions:** What is the difference between generalists and specialists and which has a higher survival advantage?

**Agenda:**

**1.** Pepper moth simulation (<http://www.peppermoths.weebly.com>)

2. Pepper moth “matching” review

**3.** Ch. 5 PPT

**Friday September 20, 2019**

APES: Week 7 Day 32

**Standard**: Ch. 5 (biology review)

**Learning Target**: Review concepts by answering questions and discuss mechanisms of evolution through “round-table consensus,” video clips and information from the chapter 5 PowerPoint.

**Essential Questions:** What are similarities and differences of different symbiotic relationships?

**Agenda:**

1. Review Questions

2. Ch. 5 PPT

3.Ms. Ballard (AP info)

**Monday September 23, 2019**

APES: Week 8 Day 33

**Standard**: Ch. 5 (biology review)

**Learning Target**: Review types of interactions between organisms through discussion of PowerPoint slides, video clips and a matching activity.

**Essential Questions:** What are similarities and differences of different symbiotic relationships?

**Agenda:**

1. Ch. 5 PPT

**Tuesday September 24, 2019**

APES: Week 8 Day 34

**Standard**: Ch. 5 (biology review)

**Learning Target**: Demonstrate understanding of biological topics by scoring well on a quiz. Review the 10% rule and keystone species through discussing slides and watching video clips.

**Essential Questions:** Why is energy lost from one trophic level to another?

**Agenda:**

1. Ch. 5 Part 1 Vocab Quiz

2. Ch. 5 PPT

**Wednesday September 25, 2019**

APES: Week 8 Day 35

**SUB PLANS**

**Standard**: Ch. 5 (biology review)

**Learning Target**: Read about the nitrogen cycle, create a diagram and write a story from the perspective of a nitrogen molecule.

**Essential Questions:** How does nitrogen cycle through and ecosystem?

**Agenda:**

1. Nitrogen Packet

**Thursday September 26, 2019**

APES: Week 8 Day 36

**SUB PLANS**

**Standard**: Ch. 5 (biology review)

**Learning Target**: Complete a practice FRQ about biogeochemical cycles and score and write corrections.

**Essential Questions:** How does nitrogen cycle through and ecosystem?

**Agenda:**

1. 2014 FRQ

2. Scoring/Corrections

**Friday September 27, 2019**

APES: Week 8 Day 37

**HERO TRAINING**

**Standard**: Ch. 5 (biology review)

**Learning Target**: Hero Training

**Essential Questions:**

**Agenda:**

1. Hero Training

**Monday September 30, 2019**

APES: Week 9 Day 38

**Standard**: Ch. 5 (biology review)

**Learning Target**: Model the flow of a “vital commodity” through an ecosystem and analyze results.

**Essential Questions:** Why are some organisms able to have higher amounts of the “vital commodity”?

**Agenda:**

1. “Vital Commodity” Lab

2. Analysis

**Tuesday October 1, 2019**

APES: Week 9 Day 39

**Standard**: Ch. 5 (biology review)

**Learning Target**: Demonstrate knowledge of key ecological terms by scoring well on a quiz. Discuss the 10 percent rule and biogeochemical cycles.

**Essential Questions:** Why are some organisms able to have higher amounts of the “vital commodity”?

**Agenda:**

1. Chapter 5 Part 2 Vocab Quiz

2. AP dates/info. $5 deposit due

3. Ch. 5 PPT

**Wednesday October 2, 2019**

APES: Week 9 Day 40

**Standard**: Ch. 5 (biology review)

**Learning Target**: Discuss the 10 percent rule and biogeochemical cycles.

**Essential Questions:** Why are some organisms able to have higher amounts of the “vital commodity”?

**Agenda:**

1. Return papers

2. Bozeman (Energy pyramids)

3. Ch. 5 PPT

**Thursday October 3, 2019**

APES: Week 9 Day 41

**Standard:** Chapter 5 (biology/ecology review)

**Learning Target**: Model the nitrogen cycle using dice to determine a random pathway. Compare and contrast your model with the model of other students and evaluate the model for accuracy.

**Essential Questions:** How does nitrogen cycle through ecosystems?

**Agenda:**

1)Nitrogen Passport Lab

2) Label each step as either biotic or abiotic

3) Ch. 5 PPT

**Friday October 4, 2019**

APES: Week 9 Day 42

**Standard:** Chapter 5 (biology/ecology review)

**Learning Target**: Review basic biological and chemical science topics by discussing slides and participating in collaborative activities.

**Essential Questions:** How does nitrogen cycle through ecosystems?

**Agenda:**

1)Review Questions

2) Ch. 5 PPT

**Tuesday October 8, 2019**

APES: Week 10 Day 43

**Standard:** Chapter 5 (biology/ecology review)

**Learning Target**: Demonstrate knowledge of biological and ecological concepts by scoring well on an exam.

**Essential Questions:** How does nitrogen cycle through ecosystems?

**Agenda:**

1)Chapter 5 test

2) Ch. 6 PPT

**Wednesday October 9, 2019**

APES: Week 10 Day 44

**Standard:** Chapter 5 (biology/ecology review)

**Learning Target**: Listen to a podcast and evaluate Fritz Haber. Was he “good” or “bad?” Brainstorm “biomes.”

**Essential Questions:** How is nitrogen fixed?

**Agenda:**

1)Fritz Haber (RadioLab)

2) Ch. 6 PPT (brainstorm)

**Thursday October 10, 2019**

APES: Week 10 Day 45

**Standard:** Chapter 6

**Learning Target**: Distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1)Ch. 6 PPT

2) Memory Game

**Friday October 11, 2019**

APES: Week 10 Day 46

**Standard:** Chapter 6

**Learning Target**: Distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1)Ch. 6 PPT

2) Memory Game

**Monday October 14, 2019**

APES: Week 11 Day 47

**Standard:** Chapter 6

**Learning Target**: Read an article about the threats to the tundra and distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1) **“**Tundra Threats” article and summary

2) Ch. 6 PPT

3) Memory Game

**Tuesday October 15, 2019**

APES: Week 11 Day 48

**Standard:** Chapter 6

**Learning Target**: Demonstrate knowledge of terrestrial biomes by scoring well on a quiz. Distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1)Ch. 6 vocab quiz (part 1)

2) Ch. 6 PPT

3) Memory Game

**Wednesday October 16, 2019**

APES: Week 11 Day 49

**College Prep Day**

**Thursday October 17, 2019**

APES: Week 11 Day 50

**Great American Shake-out**

**Standard:** Chapter 6

**Learning Target**: Distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1. Shake-out/Memory Game

**Friday October 17, 2019**

APES: Week 11 Day 51

**Standard:** Chapter 6

**Learning Target**: Distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1. Ch. 6 PPT

2. Finish Biome memory game

**Monday October 21, 2019**

APES: Week 12 Day 52

**Standard:** Chapter 6

**Learning Target**: Demonstrate understanding of terms related to aquatic biology by scoring well on a quiz. Distinguish between the earth’s biomes through discussion, slides and creating a “memory” game.

**Essential Questions:** What factors determine the different biomes?

**Agenda:**

1. Ch. 6 vocab quiz part 2 (aquatic)

2. Test Biome memory games

**Tuesday October 22, 2019**

APES: Week 12 Day 53

**Standard:** Chapter 6

**Learning Target**: Demonstrate understanding of biological and ecological concepts by scoring well on a practice AP test. Evaluate by taking notes on what topics/concepts review is needed before the actual test.

**Essential Questions:** How well am I prepared for the AP test?

**Agenda:**

1. Unit 1 Progress Check

2. Notes on what to review

**Wednesday October 23, 2019**

APES: Week 12 Day 54

**Standard:** Chapter 6

**Learning Target**: Demonstrate understanding of biomes by scoring well on the chapter 6 test.

**Essential Questions:** How well did you study?

**Agenda:**

1. Chapter 6 Exam

**Thursday October 24, 2019**

APES: Week 12 Day 55

**Standard:** Chapter 7

**Learning Target**: Demonstrate understanding of biomes by scoring well on the chapter 6 test.

**Essential Questions:** How is the “Roadless rule” linked to photosynthesis?

**Agenda:**

1. Roadless rule podcast and questions

2. Finish myAP unit 1 progress check

Assigned chapter 7 HW: Read chapter and answer 4, 6, 10, 16, 17, 20, 21, 22 and draw and label Figure 7.19 (due Oct. 31st).

**Friday October 25, 2019**

APES: Week 12 Day 56

**Standard:** Chapter 7

**Learning Target**: Look at and discuss slides related to population and population growth and evaluate the population dynamics and natural selection of M&M’s.

**Essential Questions:** What factors determine the rate of population growth?

**Agenda:**

1. Ch. 7 PPT

2. Population Demographics “lab” part B

**Monday October 28, 2019**

APES: Week 13 Day 57

**Standard:** Chapter 7

**Learning Target**: Look at and discuss slides related to population and population growth and evaluate the population dynamics of cowbirds.

**Essential Questions:** What factors determine the rate of population growth?

**Agenda:**

1. Ch. 7 PPT

2. Population Demographics “lab” parts C and A

**Tuesday October 29, 2019**

APES: Week 13 Day 58

**Standard:** Chapter 7

**Learning Target**: Look at and discuss slides related to population and population growth and evaluate the population dynamics of cowbirds.

**Essential Questions:** What factors determine the rate of population growth?

**Agenda:**

1. Ch. 7 PPT

2. Population Demographics “lab” parts C and A - finish

**Wednesday October 30, 2019**

APES: Week 13 Day 59

**Standard:** Chapter 7

**Learning Target**: Analyze survivorship curves and then research information to distinguish between the three types.

**Essential Questions:** What factors affect survivorship?

**Agenda:**

1. Survivorship curve worksheet (brainstorm and research)

**Thursday October 31, 2019**

APES: Week 13 Day 60

**Standard:** Chapter 7

**Learning Target**: Discuss population demographics through looking at slides and video clips.

**Essential Questions:** What’s the difference between k-selected and r-selected species?

**Agenda:**

1. Rule of 70

2. Ch. 7 PPT

**Friday November 1, 2019**

APES: Week 13 Day 61

**Standard:** Chapter 7

**Learning Target**: Discuss population demographics through looking at slides and video clips.

**Essential Questions:** How do society’s change as they transition?

**Agenda:**

1. Ch. 7 PPT

2. “World in the Balance”

**Monday November 4, 2019**

APES: Week 14 Day 62

**Standard:** Chapter 7

**Learning Target**: Learn about population demographics through reviewing practice questions and watching a documentary on Population.

**Essential Questions:** How do society’s change as they transition?

**Agenda:**

1. Practice questions (Part 1)

2. “World in the Balance”

**Tuesday November 5, 2019**

APES: Week 14 Day 63

**Standard:** Chapter 7

**Learning Target**: Learn about population demographics through reviewing practice questions and watching a documentary on Population.

**Essential Questions:** How do society’s change as they transition?

**Agenda:**

1. Vocab Quiz (Ch. 7)

2. “World in the Balance” (finish and turn in)

3. Practice questions (Part 2)

**Wednesday November 6, 2019**

APES: Week 14 Day 64

**Standard:** Chapter 7

**Learning Target**: Learn about population demographics through reviewing practice questions.

**Essential Questions:** How do society’s change as they transition?

**Agenda:**

1. Return papers

2. Practice questions (Part 3)

3. Ch. 8 PPT

**Thursday November 7, 2019**

APES: Week 14 Day 65

**Standard:** Chapter 7

**Learning Target**: Demonstrate understanding of population dynamics by scoring well on a test.

**Essential Questions:** How do society’s change as they transition?

**Agenda:**

1. Ch. 7 Test (FRQ +)

2. Ch. 8 PPT

**Friday November 8, 2019**

APES: Week 14 Day 66

**Standard:** Chapter 8: Energy Consumption

**Learning Target**: Understand trends in worldwide energy use by discussing slides.

**Essential Questions:** How is energy used around the world?

**Agenda:**

1. Ch. 8 PPT

**Tuesday November 12, 2019**

APES: Week 15 Day 67

**Standard:** Chapter 9: Non-renewable Energy

**Learning Target**: Evaluate progress on understanding of population dynamics and discuss conventional energy.

**Essential Questions:** What are advantages and disadvantages non-renewable energy sources?

**Agenda:**

1. Discuss ch. 7 Population Tests

2. Ch. 9 PPT (with conventional energy charts)

**Wednesday November 13, 2019**

APES: Week 15 Day 68

**Standard:** Chapter 9: Non-renewable Energy

**Learning Target**: Evaluate progress on understanding of population dynamics and discuss conventional energy.

**Essential Questions:** What are advantages and disadvantages non-renewable energy sources?

**Agenda:**

1. Ch. 9 PPT (with conventional energy charts)

(Ch. 8 HW due)

**Thursday November 14, 2019**

APES: Week 15 Day 69

**Standard:** Chapter 9: Non-renewable Energy

**Learning Target**: Discuss background slides to prepare for the mining lab. Watch a video clip about how silver is processed and consider the environmental drawbacks. Watch a video clip about the diamond industry and consider humanitarian consequences.

**Essential Questions:** What are the different forms of conventional energy?

**Agenda:**

1)Mining PPT

2. Ch. 9 PPT (with conventional energy charts)

(Ch. 9 HW assigned: Read chapter and answer review questions 5, 7, 8, 12, 17 and 20 – Due – Nov. 20th)

**Friday November 15, 2019**

APES: Week 15 Day 70

**Standard:** Chapter 9

**Learning Target**: Distinguish between different mining methods through modeling the mining process and evaluating their success and their environmental impacts.

**Essential Questions:** What are advantages and disadvantages of different mining methods?

**Agenda:**

1. Cookie Mining
2. Analysis
3. Ch. 9 Continued

**Monday November 18, 2019**

APES: Week 16 Day 71

**Standard:** Chapter 9

**Learning Target**: Distinguish between different mining methods through modeling the mining process and evaluating their success and their environmental impacts. Compare and contrast types of non-renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

1. Finish Cookie mining analysis
2. Ch. 9 Continued

**Tuesday November 19, 2019**

APES: Week 16 Day 72

**Standard:** Chapter 9

**Learning Target**: Demonstrate understanding of different types of nonrenewable energy by scoring well on a vocab quiz. Compare and contrast types of non-renewable sources of energy and practice ½ life calculations.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

1. Ch. 8/9 vocab quiz
2. Ch. 9 Continued (1/2 life calculations)

**Wednesday November 20, 2019**

APES: Week 16 Day 73

**Standard:** Chapter 9

**Learning Target**: Compare and contrast types of non-renewable sources of energy and practice ½ life calculations.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

1. Ch. 9 Continued (1/2 life calculations)

**Thursday November 21, 2019**

APES: Week 16 Day 74

**Standard:** Chapter 9

**Learning Target**: Compare and contrast types of non-renewable sources of energy and practice ½ life calculations.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

1. Ch. 9 Continued (1/2 life data worksheet) – turn in
2. Finish ch. 9 PPT
3. Ch. 10 PPT – (turn in Conventional energy grids)

**Friday November 22, 2019**

APES: Week 16 Day 75

**Standard:** Chapter 9

**Learning Target**: Practice ½ life calculations using Red Vines,

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

**1)** What am I? activity:

**2)** “Twizzler Lab”

**3)** Chapter 10

**Monday December 2, 2019**

APES: Week 17 Day 76

**Standard:** Chapter 10

**Learning Target**: Compare and contrast types of renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

**1)** Energy Practice Problems (multiple choice)

**2)** Chapter 10 PPT

**Tuesday December 3, 2019**

APES: Week 17 Day 77

**Standard:** Chapter 10

**Learning Target**: Compare and contrast types of renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

**1)** Practice Energy Calculations (worksheet)

**2)** Chapter 10 PPT

**Wednesday December 4, 2019**

APES: Week 17 Day 78

**Standard:** Chapter 10

**Learning Target**: Compare and contrast types of renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of nonrenewable energy sources?

**Agenda:**

**1)** Practice Energy Calculations (worksheet) – check last problem

**2)** Chapter 10 PPT

**Thursday December 5, 2019**

APES: Week 17 Day 79

**Standard:** Chapter 10

**Learning Target**: Demonstrate understanding of renewable energies by scoring well on a vocabulary quiz. Compare and contrast types of renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of renewable energy sources?

**Agenda:**

**1)** Vocab Quiz 10 (Renewable Energy)

**2)**

**3)** Chapter 10 PPT

**Friday December 6, 2019**

APES: Week 17 Day 80

**Standard:** Chapter 10

**Learning Target**: Compare and contrast types of renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of renewable energy sources?

**Agenda:**

**1)** Kahoot! Renewable and Nonrenewable Energy

**2)** Chapter 10 PPT

**Monday December 9, 2019**

APES: Week 18 Day 81

**Standard:** Chapter 10

**Learning Target**: Compare and contrast types of renewable sources of energy.

**Essential Questions:** What are advantages and disadvantages of renewable energy sources?

**Agenda:**

**1)** Chapter 10 PPT

2) Return papers

**Tuesday December 10, 2019**

APES: Week 18 Day 82

**Standard:** Chapter 11

**Learning Target**: Model islands and the colonization of species to recreate MacArthur and Wilson’s Island Biogeography studies.

**Essential Questions:** What kinds of islands are the most desirable to save native fauna and flora?

**Agenda:**

1) Biodiversity review

2) Island Biogeography video: <https://www.youtube.com/watch?v=bluAfDj_B2s>

3) “Island Biogeography lab”

**Wednesday December 11, 2019**

APES: Week 18 Day 83

**Standard:** Chapter 11

**Learning Target**: Model islands and the colonization of species to recreate MacArthur and Wilson’s Island Biogeography studies.

**Essential Questions:** What kinds of islands are the most desirable to save native fauna and flora?

**Agenda:**

1) Finish “Island Biogeography lab” graphing and analysis

2) Ch. 11 PPT

**Thursday December 12, 2019**

APES: Week 18 Day 84

**Standard:** Chapter 11

**Learning Target**: Model islands and the colonization of species to recreate MacArthur and Wilson’s Island Biogeography studies.

**Essential Questions:** What kinds of islands are the most desirable to save native fauna and flora?

**Agenda:**

1) Energy Test (Ch. 8-10)

**Friday December 13, 2019**

APES: Week 18 Day 85

**Standard:** Chapter 11

**Learning Target**: Model islands and the colonization of species to recreate MacArthur and Wilson’s Island Biogeography studies.

**Essential Questions:** What kinds of islands are the most desirable to save native fauna and flora?

**Agenda:**

1) Ch. 11 PPT

2) Endangered Species Projects

**Monday-Friday December 16, 2019**

APES: Week 18 Day 86-90

**Standard:** Chapter 11

**Learning Target**: Finals (no class)

**Essential Questions:** What is causing the endangerment of species and how can they be protected?

**Agenda:**

1) Ch. 11 Vocab Quiz

2) Endangered Species Presentations