**APES 2021**

**AP Environmental Science Course Outline**

**Maxey #51**

Note: The AP Classroom progress checks (In Bold) will be

 completed after the indicated chapters and prior to unit

 tests.

**Fall Semester**

**Unit I Introduction to Environmental Science**

Test: TBA

Chapters 1, 2. / Fast track to a 5: Unit I (p. 59-77)

Labs: Whinograstksy Columns, Tragedy of the Commons

**Unit II Terrestrial Ecology**

Test: TBA

Chapters 3, 5, 7 / Fast track to a 5: Unit 2 (p. 79-110)

Labs: Population mark and release, Biodiversity with Berlese funnels, Shannon-Wiener Index

AP Classroom: **Units 1 and 2**

**Unit III Aquatic Ecology**

Test: TBA

Chapters 8, 11, 13, 20 / Fast track to a 5: Unit 6 (p. 181-210)

Labs: Eco-Bottles, River Coliform Count, Dissolved Oxygen / BOD

Field Trip: River Study Wed.(9/25/19)

**Unit IV Human Population**

Test: TBA

Chapters 6, 22, 23 / Fast track to a 5: Unit 4 (p. 139-159)

Labs: Human Population Demography (Cemetery Lab), World Population Lab

AP Classroom: **Unit 3**

**Unit V Soil**

Test Wednesday 12/11/19

Chapter 12 / Fast track to a 5: Unit 4 (p. 139-159)

Labs: Soil Qualitative Analysis

AP Classroom: **Unit 5**

**Fall Final Date to be announced**

**Spring Semester**

**Unit VI Biodiversity and Evolution**

Test: TBA

Chapters 4, 9, 10 / Fast track to a 5: Unit 3 (p.111-138)

Labs: Hotspots Web quest,

**Unit VII Geology and Mineral Resources**

Test: TBA

Chapter 14 / Fast track to a 5: Unit 7 (p.211-232)

Labs: Geologic Timeline, Virtual Earthquake, Cookie Mining.

AP Classroom: **Unit 4**

**Unit VIII Nonrenewable and Renewable Energy**

Test: TBA

Chapters 15, 16 / Fast track to a 5: Unit 7 (p. 211-233)

Labs: Isotope Lab

Field Trip: CHS Refinery Date to be determined.

AP Classroom: **Unit 6**

**Unit IX Environmental Hazards and Human Health / Solid and Hazardous Waste**

Chapters 17, 21 / Fast track to a 5: Unit 5 (p.161-180) and Unit 9 (p. 257-272)

Labs: LD 50

AP Classroom: **Unit 8**

**Unit X Air Pollution and Climate Disruption**

Chapters 18, 19 / Fast track to a 5: Unit 8 (p. 233-256)

AP Classroom: **Units 7 and 9**

**Practice Exam Tuesday 4/12/21 – 4/13/21**

**Final Review Monday 4/26/21 – 4/28/21**

**\*Spring Final 4/29/21 – 4/30/21\***

**\*\*APES EXAM Friday May 14th at 12 Noon\*\***