



HIGH SCHOOL

ENVIRONMENTAL SYSTEMS YEAR AT A GLANCE

MRS. ROSAS

TOPICS COVERED	DATES	TEKS
Scientific Practices & Earth's Environmental Systems • Lab and field safety • Scientific investigations • Systems thinking • Biotic vs. abiotic factors • Earth's spheres (biosphere, atmosphere, hydrosphere, geosphere) • Natural resources • Water distribution and water cycle	AUGUST 12 - SEPTEMBER 24	1A–1G (Scientific & Engineering Practices) 2A–2D (Earth systems, resources, water)
Ecosystems & Energy Flow • Ecosystem structure • Food chains & food webs • Energy pyramids • Productivity • Biogeochemical cycles (carbon, nitrogen, phosphorus, water) • Ecological succession	SEPTEMBER 28 - NOVEMBER 6	3A–3E
Populations, Biodiversity & Biomes • Population growth • Carrying capacity • Limiting factors • Species interactions • Biodiversity • Texas and world biomes • Adaptations	NOVEMBER 9 - DECEMBER 18	4A–4F
Natural Resources & Human Impact • Renewable vs. nonrenewable resources • Land use • Agriculture	JANUARY 5 - FEBRUARY 12	5A–5E

• Mining • Forestry • Water use and conservation • Waste management and recycling		
Pollution, Energy & Sustainability • Air pollution • Water pollution • Soil pollution • Climate and climate change • Fossil fuels • Alternative energy sources • Sustainability practices	FEBRUARY 15 - APRIL 2	6A–6F
Environmental Issues & Stewardship • Environmental policy • Conservation • Habitat restoration • Human population growth • Environmental decision-making • Local and global environmental issues • Semester review and final projects	APRIL 5 - MAY 19	7A–7E