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AP Environmental Science

Unit 4 Progress Check FRQ

1. Write your answers in the space provided either in the figure or diagram or attach the answer. When application of knowledge is required, support your answers with relevant information where specific examples.

2. Identify the three types of succession shown in the figure above.

Primary succession: following volcanic activity on a mountain.

3. Provide species and functional ecological succession.

4. Identify a process or event that could be used in an ecosystem like the one in the figure above.

Primary succession: following volcanic activity on a mountain.

5. Describe the role of pioneer species in early succession.

Pioneer species: following volcanic activity on a mountain.

6. Explain how primary succession species succeed in succession after the forest.

Page 1 of 1

CollegeBoard
Advanced Placement
Program

AP Environmental Science
2015 Free-Response Questions

The College Board

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AP Environmental Science | APES | 2023 Summer Assignment

Welcome to AP Environmental Science! The goal of this course is to provide students with the scientific processes, concepts, and skills necessary to understand the interactions between the natural world, the human world, and the environment. Students will learn to identify and analyze environmental problems both locally and globally; to evaluate the human impact on the environment; and to explore alternative solutions for resolving or preventing these environmental problems. Students will also learn to apply the scientific process to understand the human impact on the environment and to explore alternative solutions for resolving or preventing these environmental problems.

Throughout the AP Environmental Science course, students will explore the environmental issues that are most important to the world today. The course will cover the following topics: the scientific process, the natural world, the human world, and the environment. Students will learn to identify and analyze environmental problems both locally and globally; to evaluate the human impact on the environment; and to explore alternative solutions for resolving or preventing these environmental problems.

With the summer break, students will be able to complete the following summer assignments, which will help you understand the course and prepare for the AP exam.

- 1. **Read Assignment:** The summer assignment packet (PDF) will be using for this course. A central theme of the course will be the scientific process. To read and understand the following text:

Environmental Science: The Scientific Process

Environmental science is the study of the natural world and the human impact on it.

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- 2. **APES Summer Assignment Part 1:** Environmental science is the study of the natural world and the human impact on it. It is a multidisciplinary field that draws on the sciences of biology, chemistry, physics, and earth science to understand the interactions between the natural world and the human world.

- 3. **APES Summer Assignment Part 2:** Environmental science is the study of the natural world and the human impact on it. It is a multidisciplinary field that draws on the sciences of biology, chemistry, physics, and earth science to understand the interactions between the natural world and the human world.

- 4. **APES Summer Assignment Part 3:** Environmental science is the study of the natural world and the human impact on it. It is a multidisciplinary field that draws on the sciences of biology, chemistry, physics, and earth science to understand the interactions between the natural world and the human world.

Classwork Assignments Basics Ap Environmental Science Syllabus ap Environmental Science Curriculum Guides 2020 Laboratory Laboratory Rubrica Summer Break Frq what is worse Environmentally? HTPA Academic Honesty Contract 10 Main Laboratory Safety Rules Lab Safety Contract Experimental Design Activity I2 Graph Analysis and Tails Information for Graphing 10 Highly effective students and how to study one The living world: the ecosystems 1.1 Introduction to Ecosystems 1.2 Biome Terrestrial 1.3 Biome Aquatic 1.4 Carbon cycle 1.5 cycle of azotus 1.6 Phosphorus cycle 1.7 cycle of water 1.8 Primary productivity 1.9 levels Trophic 1.10 Energy flow and role of the food chain 101.11 Unit 2 The Living World: Biodiversity 2.1 Introduction to biodiversity 2.2 Ecosystem services 2.3 Biogeography Insular 2.4 Ecological tolerance 2.5 Natural disorders of ecosystems 2.6 Adaptation 2.7 ECOLOGICAL ADAPTATIONS 2 Revision Eunit 3 Population 3.1 sp Generic and specialist ECIE 3.2 K and R SELEC species 3.3 survival curves 3.4 Shipping capacity 3.5 Population growth and resource availability 3.6 Structure diagrams 3.7 total fertility rates 3.9 Dynamics of the human population 3.9 DEMOGRAPHIC TRANSITION 4 SYSTEMS AND RESOURCES OF THE TROPICS 4.1 TECHONICS OF PLATES 4.2 Training and erosion of the soil 4.3 Soil composition and correct 4.4 Terrestrial atmosphere 4.5 Global wind models 4.6 Water basins 4.7 Solar radiation and seasons of land 4.8 Geography and climate of the land 4.9 El Nino and the Nina unit 5 Use of the soil and the water 5.1 Tragedy of the Common 5.2 Elimination 5.3 Revolution Verde 5.4 Impact of agricultural practices 5.5 IR irrigation methods 5.6 Methods of fighting against Parasites 5.7 Meat production methods 5.8 Impact of excessive fishing 5.9 Impact of extractive activities 5.10 Impact of urbanization 5.11 Imprint Introduction to sustainability 5.13 Methods to reduce urban exodus 5.14 Integrated pest management 5.15 Sustainable agriculture 5.16 Aquaculture 5.17 Sustainable forests Unit 6 Energy and Consumption 6.1 Renewable and Nonrenewable Energy Sources 6.2 Global Energy Consumption 6.3 Fuel Types and Uses 6.4 Distribution of Natural Energy Resources 6.5 Fossil Fuels 6.6 Nuclear Power 6.7 Energy and Biomass 6.8 Solar Energy 6.9 Hydroelectric Power 6.10 Geothermal Energy 6.11 Hydrogen Fuel Cells 6.12 Wind Energy 6.13 Energy Conservation Unit 7 Atmospheric Pollution 7.1 Introduction to Air Pollution 7.2 Photochemical Smog 7.3 Thermal Inversion 7.4 Atmospheric CO2 and Particulates 7.5 Indoor Air Pollutants 7.6 Reduction of Air Pollution 7.7 Acid Rain 7.8 Noise Pollution Unit 8 Aquatic and Terrestrial Pollution 8.1 Sources of Pollution 8.2 Human Impacts of Ecosystems 8.3 Endocrine Disruptors 8.4 Human Impacts of Wetlands and Mangroves 8.5 Eutrophication 8.6 Thermal Pollution 8.7 Persistent Organic Pollutants 8.8 Bioaccumulation and Biomagnification 8.9 Solid Waste Disposal 8.10 Waste Reduction Methods 8.11 Sewage Treatment 8.12 Lethal Dose 508.13 Dose Response Curves 8.14 Pollution and Human Health 8.15 Pathogens and Infectious Diseases Unit 9 Global Change 9.1 Stratospheric Ozone Depletion 9.2 Reducing Ozone Depletion 9.3 The Greenhouse Effect 9.4 Increases in the Greenhouse Gases 9.5 Global Climate Change 9.6 Ocean Warming 9.7 Ocean Acidification 9.8 Invasive Species 9.9 Endangered Species 9.10 Human Impacts of Biodiversity AP Exam AP Exam Review Schedule 2019-2020 for Units 1-7 Unit 1 The Living World: Ecosystems Review Packet Unit 2 The Living World: Biodiversity Review Packet Unit 3 Populations Review Packet Unit 4 Earth Systems Review Packet Unit 5 Land and Water Use Review Packet Unit 6 Energy Resources and Consumption Review Packet Unit 7 Atmospheric Pollution Review Packet APES 2020 Review Book by Ms. Savannah Hollis 2016 Excel Mock Calculator Environmental Legislation and Agency Review PPT Former FRQs Organized by Topics Important Updates AP Daily and AP Classroom Short, searchable AP Daily videos can be assigned alongside topic questions to help you cover course content, skills, and task models, and check student understanding. Unlock A Progress checks so students can demonstrate their knowledge and skills unit by unit and use My Reports A to highlight progress and additional areas for support. A Sign In to AP Classroom Exam Date Event The AP Psychology Exam has consistent question types, weighting, and scoring guidelines every year, so you and your students know what to expect on exam day. Section I: Multiple Choice 100 Questions | 1 Hour 10 minutes | 66.7% of Exam Score Questions will ask students to do the following: Define and explain content from a range of course topics Apply skills of concept application, data analysis, and scientific investigation Section II: Free Response 2 Questions | 50 minutes | 33.3% of Exam Score Questions will ask students to do the following: Explain behavior and apply theories using concepts from different theoretical frameworks or subdomains in the field Analyze psychological research studies, including analyzing and interpreting quantitative data Exam Questions and Scoring Information Past Exam Questions and Scoring Information Information

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