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Air noise and light pollution worksheet

Chapter 12 Air – Chapter 12 Vocabulary Chapter 12 Concept Map – Will Not Be Able to View on iPad Chapter 12 Note Guide – Nicollela DAY 1 Section 12.1 What Causes Air Pollution? Objectives 1. Name the five primary air pollutants and indicate the sources for each of them. 2. Name the two main sources of air pollution in urban areas. 3. Describe how smog is formed. 4. Explain how thermal inversion captures air pollution. 12.1 Vocabulary of air pollution — contamination of air by waste from sources such as industrial combustion and exhaust gases from primary pollutant cars — pollutant; which is released directly into the air by a secondary pollutant of man or by a natural activity — a pollutant produced in the atmosphere by a chemical reaction with primary air pollutants, natural constituents in the air or both smog — urban air pollution composed of a mixture of smoke and mist produced from industrial pollutants and an inversion of the combustion temperature of fuels — atmospheric status in which warm air captures cooler air near the Earth's surface 12.1 Textbook Students 12.1 mp3 (10:43) 12.1 PowerPoint Nicolella: ch12_sec1 revised.ppt YouTube Video: Common Air Pollutants & Their Sources 12.1 Active Reading Self-Check Quiz Section 1: What Causes Air Pollution? DAY 2 Activity 24 Detecting Air Pollution DAY 3 & 4 Smog City 2 Save Smog City 2 from Ozone Worksheet Save Smog City 2 from Particle Worksheet Pollution DAY 5 Section 12.2 Air, Noise, & Light Pollution Objectives 1. Describe the three possible short-term effects and long-term effects of air pollution on human health. 2. Explain what causes indoor air pollution and how it can be prevented. 3. Describe the three human health problems caused by noise. 4. Describe solutions for energy waste caused by light pollution. 12.2 Vocabulary of ill-building syndrome – a set of symptoms such as headache, fatigue, eye irritation, and dizziness that can affect workers in modern, airtoted office buildings; believed to be caused by the internal pollutant asbestos - any of the six silicate minerals that make up bundles of minute fibers that are resistant to heat, flexible and durable decibel - the most common unit used to measure volume (acronym, dB) 12.2 Student Textbook 12.2 mp3 (7:36) 12.2 PowerPoint Nicolella: ch12_sec2 revised.ppt 12.2 Active Reading Self-Check Quiz Section 2: Air, Noise and Light Pollution DAY 6 Air Pollution WebQuest – Wikipedia Is Blocked for Kids... Air Pollution - Bang Goes Theory (29:13) DAY 7 § 12.3 Acid Precipitation Targets 1. Explain the causes of acid clotting. 2. Explain how acid clotting affects plants, soil and aquatic 3. Describe three ways acid clotting affects people. 4. Describe ways in which countries work together to address the problem of acid clotting. 12.3 Acid precipitation in the dictionary — precipitation such as snow or snow containing a high concentration of acids, often due to pollution of the pH of the atmosphere — a value used to express the acidity or alkality of the system; each integer on the scale indicates a 10-fold change in acidity; pH 7 is neutral, the pH less than 7 is acidic, and the pH greater than 7 is the basic acid shock - the sudden outflow of large amounts of highly acidic water into lakes and streams when the snow melts in the spring, or when heavy rains follow drought 12.3 Student textbook 12.3 mp3 (8:51) 12.3 PowerPoint Nicolella: ch12_sec3 revised.ppt 12.3 Active Reading Self-Check Quiz Part 3: Acid Precipitation DAY 8 Chapter 12 Vocab Quiz Virtual Lab: Where in the U.S. is acid rain the most severe? - Student worksheet for magazine questions or learning about acid rain – U.S. Environmental Protection Agency DAY 9 Chapter 12 Concept Review Chapter 12 Standard Test Prep Nicolella Chapter 12 Study Guide DAY 10 Chapter 12 Test Chapter 12 Critical Thinking Chapter 12 Map Of Enrichment Skills and Expanding Activity: Testing the pH of rainwater Compare the pH of distilled water with that of rainwater, to see if you have acid rain in your area. EcoLabs & Field Activities: The ozone air measure is something at ground level and see how it contributes to air pollution. Health Reference: Particles in the air Are particles dangerous? Read about the causes and consequences of particles. Integrating Environmental Sciences: Air Quality Trends Have Your City Exceeded Federal Air Quality Standards for All Pollutants? Read about some of the cities they have. Research Note: Road pollution detector Is your car creating more than its share of pollution? Learn about an invention that identifies pollution-generating vehicles. Technology Note: Cure for air pollution? Many people believe that electric cars will help solve our air pollution problem. Learn more about the cars and the positives and negatives associated with them. Environmental note: Green buildings Read more about designers who use materials such as old tires, packaged dirt and straw bales to build buildings. Chapter 12 Laboratories Field Activity Analyzing Particle Pollution Observation Labs Testing Acid, Rain Monitoring Consumer Laboratories Identification of Sources of Pollution

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