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APES Unit 4 Vocabulary

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| **Across**  **2.** non-moving sources of pollution, such as factories.  **4.** A process that converts coal that is relatively high in sulfur to a gas in order to remove the sulfur  **10.** (NOx) Major source is auto exhaust. Primary and secondary effects include acidification of lakes, respiratory irritation, leads to smog and ozone. Reduced using catalytic converters.  **14.** pollutants that are put directly into the air by human or natural activity.  **15.** A colorless, odorless gas that is radioactiveand comes from the decay of Uranium 238  **17.** The tendency of gas or air to rise in a vertical shaft because its density is lower than that of the surrounding gas or air. It is also called stack effect.  **19.** Chemical compounds that contain carbon and hydrogen atoms.  **22.** A small discrete mass of solid or liquid matter that remains individually dispersed in gas or liquid emissions (usually considered to be an atmospheric pollutant)  **23.** A highly toxic metal that can damage the nervous system, blood, and kidneys, and can cause harm to the development of a children's intellectual abilities. Main source was leaded gasoline.  **24.** A gray-colored air pollution created when power plants and home furnaces burn fossil fuels, releasing sulfur compounds and smoke particles into the air  **25.** Rain containing acids that form in the atmosphere when industrial gas emissions (especially sulfur dioxide and nitrogen oxides) combine with water.  **26.** Refers to a structure and using process that is environmentally responsible and resource-efficient throughout a building's life-cycle: from siting to design, construction, operation, maintenance, renovation, and demolition. This practice expands and complements the classical building design concerns of economy, utility, durability, and comfort.  **27.** pollutants that form from chemical reactions that occur when primary pollutants come in contact with other primary pollutants or with naturally occurring substances, such as water vapor.  **28.** Comprehensive regulations that address acid rain, toxic emissions, ozone depletion, and automobile exhaust | **Down**  **1.** Colorless toxic gas created naturally by volcanoes. Human source is mainly from the burning of coal. Creates respiratory problems in humans and acid rain in the environment  **3.** A category of organic chemical with a high vapor pressure, which readily evaporate at normal temperature and pressure. They include benzene, chloroform, formaldehyde, ethanol, etc.  **5.** A term for several minerals that have the form of small elongated particles. Some particles believed to be carcinogenic  **6.** Air pollutants that are potentially harmful and may pose long-term health risks to people who live and work around chemical factories, incinerators, or other facilities that produce or use them (also called hazardous air pollutants).  **7.** A form of oxygen that has three oxygen atoms in each molecule instead of the usual two.  **8.** A phenomenon in which building occupants experience acute health and/or comfort effects that appear to be linked to time spent in a particular building.  **9.** the 1970 amendments to the Clean Air Act required EPA to set National Ambient Air Quality Standards for certain pollutants known to be hazardous to human health. EPA has identified six criteria pollutants: sulfur dioxide, carbon monoxide, lead, nitrogen oxides, ozone, and particulate matter.  **11.** A brownish haze that is a mixture of ozone and other chemicals, formed when pollutants react with each other in the presence of sunlight  **12.** An air pollutant that is a colorless chemical used to manufacture building materials and many household products, such as particleboard, hardwood plywood paneling, and urea-formaldehyde foam insulation.  **13.** A colorless, odorless, poisonous gas in cigarette smoke that passes through the lungs into the blood.  **16.** Condition in which warmer air is found above cooler air, restricting air circulation; often associated with a pollution event in urban areas  **18.** A decline in the amount of light reaching the earth's surface because of increased air pollution, which reflects more light back into space.  **20.** Human-induced changes on the natural environment  **21.** An additive in gasoline and is an important industrial solvent (also a component in cigarette smoke) |

   stationary sources       primary pollutants       secondary pollutants       criteria pollutants       air toxics       ozone       sulfur dioxide       nitrogen oxides       carbon monoxide       particulate matter       lead       volatile organic compounds       hydrocarbons       acid rain       global dimming       coal gasification       Benzene       Thermal Inversion       photochemical smog       sulfurous smog       Clean Air Act Amendments       Anthropogenic       asbestos       radon       chimney effect       sick building syndrome       green building        chemical formaldehyde