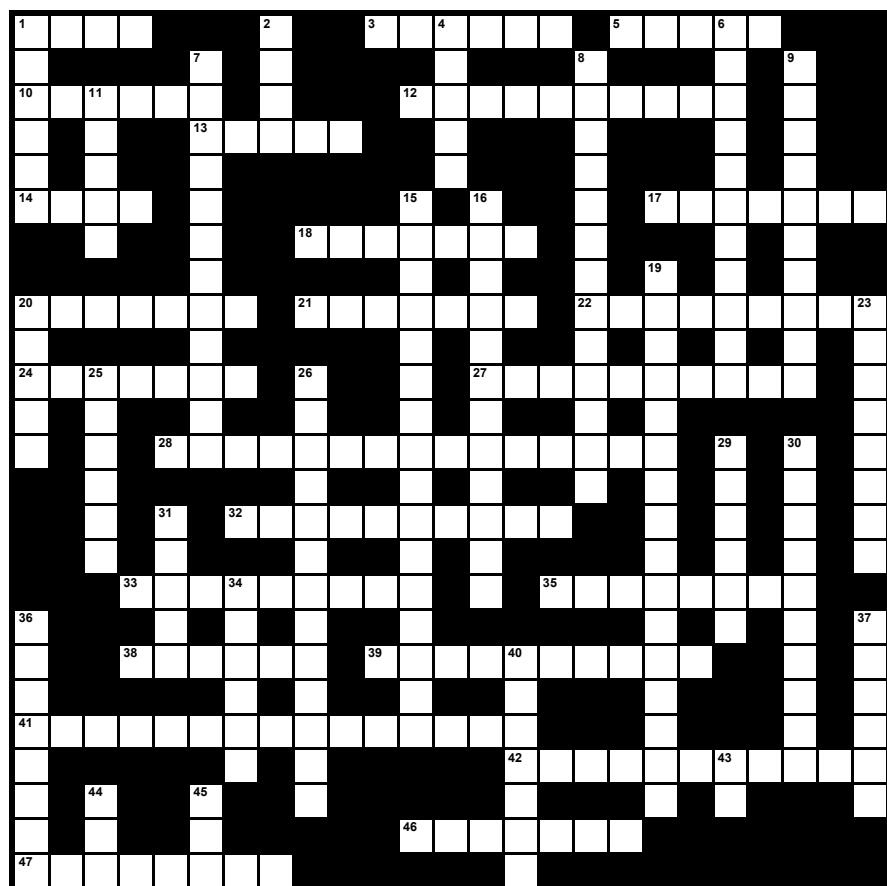


## Air Chemistry - 25 x 25

### Across

- The rate of flow of energy or particles across a given surface. (4)
- A quantum of electromagnetic radiation. (6)
- A unit of electrical energy equal to the work done when a current of one ampere passes through a resistance of one ohm for one second. (5)
- A constituent of natural gas with molecular formula C<sub>2</sub>H<sub>6</sub>. (6)
- Measurement unit for determining the total amount of ozone present in a vertical column of air above the surface of the earth. (6,4)
- The XXXXs cover approximately 70% of the Earth's surface. (5)
- This is a term used to describe a mixture of smoke and fog. (4)
- A consistent change in the sea level that affect



oceans, throughout the world. (7)

18 Oxygen-dependent or requiring oxygen. (7)

20 Its molecular formula is NH<sub>3</sub>. (7)

21 One of two or more atoms with the same atomic number but with different numbers of neutrons. (7)

22 An area of the ozone layer (near the poles) that is seasonally depleted of ozone. (5,4)

24 The force of attraction of the earth's mass for bodies near its surface. (7)

27 Heat absorbed or radiated during a change of phase at a constant temperature and pressure. (6,4)

28 A chemical compound that has rotten egg like smell. (8,7)

32 The process of covering the earth with glaciers or masses of ice. (10)

33 A stream of protons moving radially from the sun. (5,4)

35 Clouds that are also be called "mother of pearl" clouds. (8)

38 Water present in the atmosphere in gaseous form. (6)

39 Measure of ability to see and

identify objects at different distances. (10)

41 The process of freeing from nitrogen; also, the condition resulting from the removal of nitrogen. (15)

42 The lowest atmospheric layer; from 4 to 11 miles high (depending on latitude). (11)

46 Either of two times of the year when the sun crosses the plane of the earth's equator and when day and night are of equal length. (7)

47 Gas which is the major constituent of the atmosphere. (8)

**Down**

1 Any of hydrocarbons containing fluorine and chlorine, used as refrigerants. (6)

2 Atmospheric moisture or dust or smoke that causes reduced visibility. (4)

4 Molecule consisting of three oxygen atoms bonded together. (5)

6 The solid part of the earth. (11)

7 The chemistry of the earth's crust. (12)

8 Refers to something originating from humans and the impact of human activities on nature. (13)

9 Ground that is permanently frozen. (10)

11 Violent and needless disturbance. (5)

15 The gradual movement and formation of continents (as described by plate tectonics). (11,5)

16 Contamination of the atmosphere by any toxic or radioactive gases and particulate matter as a result of human activity. (3,9)

19 International environmental agreement to prevent the use of substances that are harmful to ozone. (8,8)

20 A colourless and odourless inert gas; comprises approximately 1% of the earth's atmosphere. (5)

23 The release or giving out of a gas, light or heat. (8)

25 The ratio of reflected to incident light. (6)

26 The gradual increase of atmospheric temperature due to a buildup of greenhouse gases. (6,7)

29 Also called carbolic acid. (6)

30 The sum total of all the gases surrounding the Earth. (10)

31 All the plant life in a particular region. (5)

34 Relating to or marked by a severe deficiency of oxygen in tissues or organs. (6)

36 Rain containing acids that form in the atmosphere when industrial gas emissions combine with water. (4,4)

37 It constitutes about 21% of the air we breathe. (6)

40 Of or relating to or happening on the bottom under a body of water. (7)

43 The logarithm of the reciprocal of hydrogen-ion concentration in gram atoms per liter. (2)

44 An insecticide that is also toxic to animals and humans; banned in the United States since 1972. (3)

45 Droplets of water vapour suspended in the air near the ground. (3)