

Unit: The Periodic Table (ALT 1)

The following information concerns six consecutive elements in the periodic table. Study the information carefully and then identify each element. Use the real elemental symbols and the fictitious symbols.

Element A is a highly diatomic gas at room temperature. It combines with element B to form a compound B2A.

Element B reacts with water to produce heat and causes rapid movement across the surface of the water. Element B reacts with element F to form the compound BF.

Element C is a diatomic gas at room temperature. 22.4 litters of the gas at 0°C and a pressure of 1.0 atmospheres weighs 28.0 grams. 28:2 = Kl.09

Element D is a gas that does not form compounds with anything.

Element E is a nonmetal appearing solid that conducts electricity moderately. It combines with element A to form common compounds EA and EA2. EA is a toxic gas emitted by cars. EA2 is emitted by you.

Element F exists as a diatomic gas at room temperature. It is the most reactive nonmetal of all the elements in this question.

BNO CN DNO EC

We know element C is N so elements A-F must be six of these in order a including N.

gas, no compounds >>)