**Activity:** choose the adequate term from the box below and complete the gaps to get the right definition for each case.

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| **adsorption- photons -medium- Absorption- two –** **absorbed- the energy-** **take up- passing-** **transition- solid-** **scattering-** |

* ……………………… (in chemistry) The ………………….. of a gas by a…………….. or liquid, or the take up of a liquid by a solid. Absorption differs from …………………..in that the absorbed substance permeates the bulk of the absorbing substance. **2.** (in physics) The conversion of ………………….of electromagnetic radiation, sound, streams of particles, etc., into other forms of energy on……………… through a medium. A beam of light, for instance, passing through a………………, may lose intensity because of ……………effects: ………………of light out of the beam, and absorption of …………….by atoms or molecules in the medium. When a photon is………………, there is a ………………..to an excited state.

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| **growth -sulphur -the emission –** **deposited- 5.6-Acid rain-** **the burning** -**carbon dioxide-** **fumes-** **acidification-** **pH value-5.0-** **gases-** **nitric-** **snow- the acidity- Lichens.** |

* …………………. precipitation having a ………………of less than about………….., which has adverse effects on the fauna and flora on which it falls. Rainwater typically has a pH value of………….., due to the presence of dissolved …………………(forming carbonic acid). Acid rain results from …………………….into the atmosphere of various pollutant…………………., in particular …………….dioxide and various oxides of nitrogen, which originate from ……….……….of fossil fuels and from car exhaust……………, respectively. These gases dissolve in atmospheric water to form sulphuric and ……………… acids in rain, …………………., or hail (**wet deposition**). Alternatively, the pollutants are ………………… as gases or minute particles (**dry deposition**). Both types of acid deposition affect plant ……………….– by damaging the leaves and impairing photosynthesis and by increasing …………………….of the soil, which results in the leaching of essential nutrients. This acid pollution of the soil also leads to ………………………of water draining from the soil into lakes and rivers, which become unable to support fish life. ……………………… are particularly sensitive to changes in pH and can be used as indicators of acid pollution.

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| **hydrogendifluoride- hydrogens-ions- bonding -Acid salt- monobasic- replaced - polybasic- hydrogencarbonates** |

* ………………….. a salt of a …………….acid (i.e. an acid having two or more acidic ……………………) in which not all the hydrogen atoms have been………………… by positive……………………….. For example, the dibasic acid carbonic acid (H2CO3) forms acid salts (……………………..) containing the ion HCO3 –. Some salts of………………….. acids are also known as acid salts. For instance, the compound potassium………………………., KHF2, contains the ion [F...H–F]–, in which there is hydrogen………………………. between the fluoride ion F– and a hydrogen fluoride molecule.