

## Photochemical smog: A-Level Chemistry, Ramsden, L.N; Nelson Thornes.

worksheet prepared by W. Bałdyga

**1. Decide whether the following statements are true or false. Check your predictions in the text.**

1. CFCs are not naturally found in the atmosphere.
2. Hydrocarbons constitute a great part of atmosphere.
3. Hydrocarbons themselves are not harmful to the atmosphere.
4. Nitrogen oxide is one of the most important elements in the production of photochemical smog.
5. Some products of oxidation are harmful to living beings.

1. to decompose	to be a particular amount or part of something
2. to account for	to burn something until it is completely destroyed
3. to incinerate	finally
4. to release	well known for being bad
5. irritating	a plant that is grown in large quantities, especially as food
6. lachrymatory	to let somebody/something come out of a place where they have been kept or trapped
7. notorious	to make your skin or a part of your body sore or painful
8. crops	plants in general, especially the plants that are found in a particular area or environment
9. vegetation	to be destroyed gradually by natural chemical processes
10. ultimately	connected with a town or city
11. urban	needing oxygen
12. aerobic	relating to or prompting tears

## 2. Vocabulary work

**Find the examples/definitions of the following from the text**

Photochemical oxidant

Oxidising agents

Oxidise

Oxidation

peroxidant

PAN

**Find the examples of products of photochemical reactions and their harmful impact.**

**Fill the gaps in the sentences with the words from the text.**

1. \_\_\_\_\_ produced by human activity account for 15% of the total amount in the atmosphere.
2. Hydrocarbons are released mainly in \_\_\_\_\_.
3. \_\_\_\_\_ emit huge quantities of hydrocarbons.
4. Another source of hydrocarbons is \_\_\_\_\_ of \_\_\_\_\_.
5. In the presence of light hydrocarbons are transformed into \_\_\_\_\_.
6. \_\_\_\_\_ react with unsaturated hydrocarbons present in the air.
7. Hydrocarbons are \_\_\_\_\_ to CO<sub>2</sub> and H<sub>2</sub>O
8. Some oxidation products are \_\_\_\_\_ or even toxic to humans and animals.
9. Irritating and toxic products of oxidation are called \_\_\_\_\_.
10. Photochemical oxidants are produced in the process \_\_\_\_\_.

