

IGCSE Chemistry

Name: _____ Score: _____

1. Chlorine is added during water treatment to:
 - ☐ kill harmful microbes
 - ☐ add minerals
 - ☐ remove solid particles
 - ☐ colour the water
2. NPK fertilisers supply nitrogen, phosphorus and:
 - ☐ sulfur
 - ☐ oxygen
 - ☐ potassium
 - ☐ carbon
3. Approximately what percentage of clean air is nitrogen?

4. Which are greenhouse gases? (Select all that apply.)
 - ☐ methane
 - ☐ carbon dioxide
 - ☐ oxygen
 - ☐ nitrogen

Tick every correct option.

5. Anhydrous copper sulfate turns which colour in the presence of water?
 - ☐ white to blue
 - ☐ green to red
 - ☐ colourless to purple
 - ☐ blue to white
6. Nitrogen in fertiliser mainly helps plants with:
 - ☐ making oxygen
 - ☐ healthy leaves and growth
 - ☐ producing pollen
 - ☐ absorbing sunlight only

7. Approximately what percentage of clean air is oxygen?

8. Greenhouse gases cause global warming by:

- ☐ causing acid rain
- ☐ removing oxygen
- ☐ trapping heat in the atmosphere
- ☐ cooling the Earth

9. At what temperature (°C) does pure water boil at normal pressure?

10. Excess fertiliser washing into rivers can cause eutrophication.

- ☐ True ☐ False

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1. **kill harmful microbes**

Chlorination sterilises the water.

2. **potassium**

N, P and K are the three key nutrients.

3. **78**

Air is about 78% nitrogen.

4. **methane; carbon dioxide**

CO₂ and methane trap heat; nitrogen and oxygen do not.

5. **white to blue**

White anhydrous copper sulfate turns blue with water.

6. **healthy leaves and growth**

Nitrogen is used to make proteins for growth.

7. **21**

Air is about 21% oxygen.

8. **trapping heat in the atmosphere**

They trap outgoing heat.

9. **100**

Pure water boils at exactly 100 °C.

10. **True**

Nutrient run-off feeds algal blooms that deplete oxygen.