

IGCSE Chemistry

Name: _____ Score: _____

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

4. Which are greenhouse gases? (Select all that apply.)

- ☐ carbon dioxide
- ☐ methane
- ☐ nitrogen
- ☐ oxygen

Tick every correct option.

5. Anhydrous copper sulfate turns which colour in the presence of water?

- ☐ white to blue
- ☐ blue to white
- ☐ green to red
- ☐ colourless to purple

6. Nitrogen in fertiliser mainly helps plants with:

- ☐ healthy leaves and growth
- ☐ making oxygen
- ☐ absorbing sunlight only
- ☐ producing pollen

7. Approximately what percentage of clean air is oxygen?

8. Greenhouse gases cause global warming by:

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

9. At what temperature ($^{\circ}\text{C}$) does pure water boil at normal pressure?

10. Filtration removes solid particles from water.

- ☐ 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. **carbon dioxide; methane**

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**

It removes insoluble solids.