

10.2 Fertilisers

Name: _____ Class: _____ Date: _____

Total: 8 marks

KEY WORDS nitrogen 氮气 • potassium 钾 • phosphorus 磷 • fertilisers 肥料 • nitrates 硝酸盐

Objective

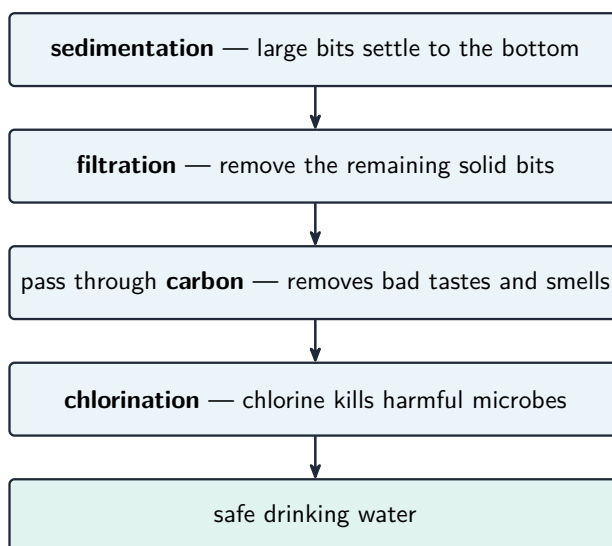
Build the skills to answer exam questions on **fertilisers** 肥料 — what they do and the three key elements (**NPK**).

You must be able to:

- state what fertilisers are used for
- name the three elements in NPK fertilisers
- recognise common fertilisers (ammonium salts, nitrates)

1 Worked examples

■ NPK fertilisers



Fertilisers add the elements plants need; excess nitrates can run off into water

- **fertilisers** help plants grow; common ones are ammonium salts and nitrates.
- **NPK** supplies Nitrogen, Phosphorus and **K** (potassium).

2 Practice

2.1 State what fertilisers are used for. [1]

2.2 Name the three elements in an NPK fertiliser. [3]

3 Exam-style questions

3.1 The letter N in NPK fertiliser stands for: [1]

- **A** sodium
- **B** nickel
- **C** nitrogen
- **D** neon

3.2 Ammonium nitrate is used as a fertiliser.

(a) Name the element it supplies that promotes leaf growth. [1]

(b) Explain one problem caused if too much fertiliser washes into rivers. [2]

Solutions

2.1 to help plants grow (replacing nutrients in the soil).

2.2 nitrogen, phosphorus and potassium.

3.1 C. N stands for nitrogen.

3.2 (a) nitrogen.

(b) the extra nitrates cause deoxygenation of the water, which harms aquatic life.