

Solutions

Each answer shows the steps, then the **result**.

2.1

- Solids (by settling/screening)

2.2

- Bacteria (biological breakdown)

2.3

- Nutrients (nitrogen, phosphorus) and pathogens (disinfection)

3.1 B

- secondary treatment

3.2

(a)

- Primary, secondary, tertiary

(b)

- Untreated sewage adds nutrients (eutrophication), pathogens (disease), and oxygen-demanding matter, harming aquatic life and human health

3.3

- Tertiary treatment removes the nitrogen and phosphorus that would otherwise fertilize algae, preventing algal blooms and eutrophication downstream