

Solutions

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

2.1

- Nitrogen and phosphorus

2.2

- Oxygen is depleted (hypoxia)

2.3

- An area of water with too little oxygen to support most life

3.1 B

- uses up the oxygen (causing hypoxia)

3.2

(a)

- Excess nutrients cause an algal bloom; the algae die and decompose; decomposers use up the oxygen, so fish suffocate

(b)

- Any one: buffer strips, reduced fertilizer, better sewage treatment

3.3

- Phosphorus is usually the limiting nutrient, so adding it removes the limit and lets algae grow explosively