

Solutions

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

2.1

- Rotating crops (especially legumes) replenishes nutrients like nitrogen

2.2

- It avoids plowing, so roots keep holding the soil in place

2.3

- To slow runoff and reduce erosion on slopes

3.1 B

- adds (fixes) nitrogen to the soil

3.2

(a)

- Cover crops keep the soil covered and held by roots; no-till avoids exposing loose soil, so both reduce erosion

(b)

- Cover crops add organic matter/nutrients and suppress weeds

3.3

- Plowing across (along) the slope creates ridges that slow water flowing downhill, giving it time to soak in rather than washing soil away