Name _____

The Underground Helpers: How Perennial Plants Boost Soil Health

Multiple Choice Questions

1. How do perennial plants contribute to soil health?

A) By completing their life cycle within a single growing season

B) By forming extensive root systems and shedding organic matter

C) By relying on synthetic fertilizers for nutrient uptake

D) By reducing soil erosion caused by wind and water

2. What role do soil microorganisms play in soil health?

A) They break down organic matter and release nutrients into the soil

B) They anchor soil particles with their roots

C) They stabilize soil structure and prevent erosion

D) They fix atmospheric nitrogen for plant use

3. How do perennial plants improve soil structure?

A) By reducing water infiltration and retention

B) By forming nodules with nitrogen-fixing bacteria

C) By creating channels and pores in the soil with their roots

D) By increasing soil erosion and nutrient runoff

4. What is the significance of nitrogen-fixing bacteria in perennial plants?

A) They contribute organic matter to the soil

B) They anchor soil particles and prevent erosion

C) They improve water infiltration and retention in the soil

D) They convert atmospheric nitrogen into a form plants can use

5. Why are perennial plants considered essential for sustainable gardening practices?

A) They rely on synthetic fertilizers for nutrient uptake

B) They complete their life cycle within a single growing season

C) They reduce soil erosion and enhance soil fertility

D) They inhibit the growth of beneficial soil microorganisms