

ANSWER KEY

How Did Your Understanding GROW?

Test your knowledge **post-activity**.

Through the Seed Survivor presentation and activities, you have learned what a seed needs to grow, and that agriculture is important. It is a big job to feed everyone!



What do you know about seeds and growing healthy plants now? See how many questions you can answer. Compare these answers to your first answers to see what you have learned.

Questions:

1. What does a seed need to grow? (hint: you should have at least FOUR things here) Sun/air, water, healthy soil and nutrients.

2. Why is soil important to us? Answers will vary. We can't live without it! Plants grow in soil, and animals feed on these plants and we feed on both. Soil filters water to keep it clean. We build on soil and with material from soil, like clay blocks, stones and rocks. Plants growing in soil provide us with oxygen that we breathe. Soil provides shelter for many animals and insects.

3. What are the three particles that make up soil? Sand, silt, clay.

4. How do the main nutrients nitrogen (N), phosphorus (P) and potassium (K), keep plants healthy?

Nitrogen (N): Helps plants stay green, healthy and strong.

Phosphorus (P): Helps a plant to use the sun's energy to make food through photosynthesis and grow healthy root systems.

Potassium (K): Protects plants against diseases and helps them stay healthy when it is cold or dry. It also helps plants move nutrients and water in the stem so the plant doesn't wilt.

5. How much of the Earth's land is ideal for growing crops? 10 %
6. Farmers use science, technology, and best management practices to grow crops on nearly 40 % of the Earth's land.
7. You should give your seeds one tablespoon of water every day and place it in a sunny window.
8. Name two careers (jobs) in agriculture. (hint: make sure you played the career match game on the Seed Survivor website!)
Answers will vary i.e.) Farmer, Agronomist, Crop Services Salesperson, Grain Buyer, Equipment Mechanic, Veterinarian, Potash Mine Operator, Botanist, among others (see game for more).
9. It is important to farmers that they care for the environment, but it is up to all of us to care for the land, air and water around us. What is one thing you could do to care for the land, air or water?
Answers will vary i.e.) reduce, reuse, recycle, compost, do not waste food/water, work together.

