

Seed Picture Clues

Explain how diagrams help you understand a text.

CCSS.ELA-Literacy.RI.2.7 "Explain how specific images (e.g., a diagram showing how a machine works) contribute to and clarify a text."

NAME _____

DATE _____

Read and mark

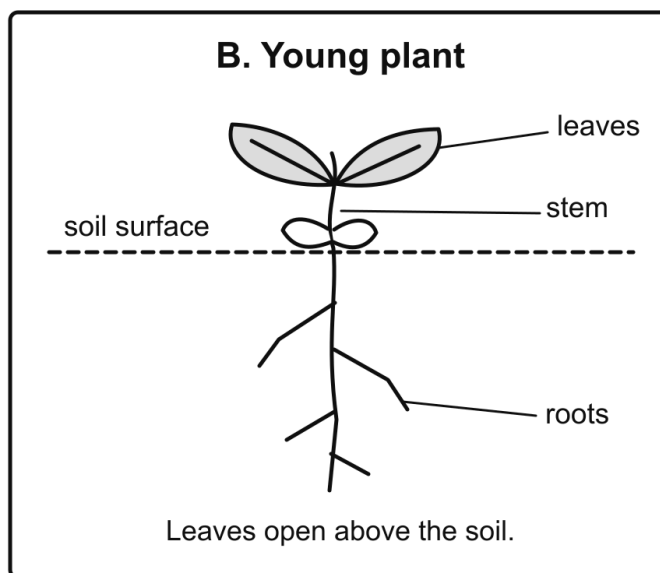
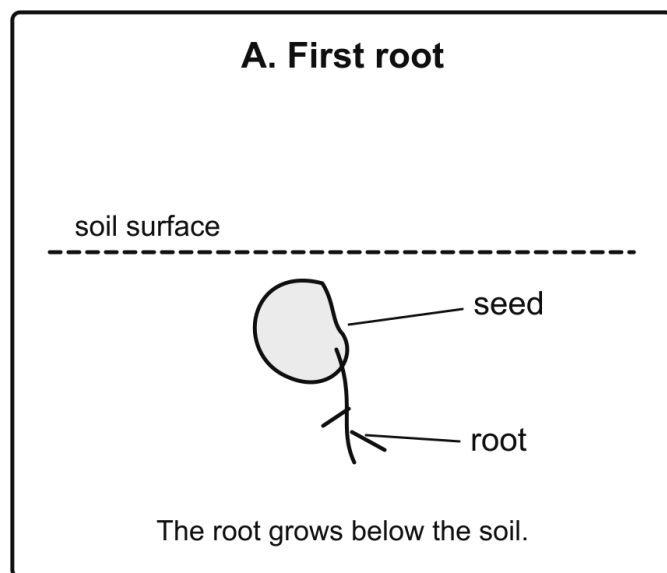
In each diagram, circle a part that helps explain the words. Underline a matching phrase in paragraph 1 or 2.

A Bean Begins to Grow

1. A bean seed takes in water. Its coat opens, and a root comes out. The root grows down into the soil. Diagram A shows this early part of growth. It lets us see a part that would be hidden under the ground.
2. Later, a stem reaches above the soil and leaves open. The roots keep growing below the soil. Diagram B shows the young plant. The line across the picture marks the top of the soil. We can see which parts are above that line and which are below it.
3. These are simple diagrams, not photographs. The labels name plant parts. The arrow between A and B shows which part of growth comes first. The words explain growth, and the pictures help us see where it happens.

Diagram A

Diagram B



Original teaching diagrams by Lesson Maker Pro; simplified cutaways, not to scale.

Explain what the pictures add

Question 1

How does the root drawn in Diagram A help explain paragraph 1? Tell what you can see and what it helps you understand.

Question 2

Look at the soil line in Diagram B. How does that line help explain the words in paragraph 2?

Question 3

What does the arrow between A and B help you understand about the text? Use a detail from each picture.

Your turn: rethink a picture

Imagine Diagram B loses its soil line but keeps the plant and labels. In two or three sentences, explain what would be harder to understand and why keeping the line helps readers.

READ AND MARK

Accept a relevant circled detail in each picture and an underlined phrase from the matching numbered paragraph. Ask students to explain how the picture adds to the words.

QUESTION 1

The root is drawn coming out of the seed and growing below the soil line. This helps me understand that it grows down where we cannot usually see it.

QUESTION 2

It separates the parts above ground from those below ground. The leaves are above the line, but the roots are below it.

QUESTION 3

The arrow points from the seed with its first root to the plant with open leaves. It helps show that the root starts growing before those leaves open.

YOUR TURN: SAMPLE

Without the soil line, it would be harder to tell which parts are above the ground. The line shows that the roots grow below the soil while the leaves are above it. This makes paragraph 2 clearer.

TEACHER NOTES

Accept explanations connecting a specific visible feature to information in the text. Do not accept only a plant-part name without explaining its help. Diagrams are simplified cutaways, not to scale; unlabelled small seed leaves in B need not be named. Growth order checked against University of Nebraska-Lincoln, From Seed to Seed, Growth Timeline: <https://passel2.unl.edu/view/lesson/ecfd27c27b15/3>