Root Anatomy Name:
Period:

ROOT ANATOMY

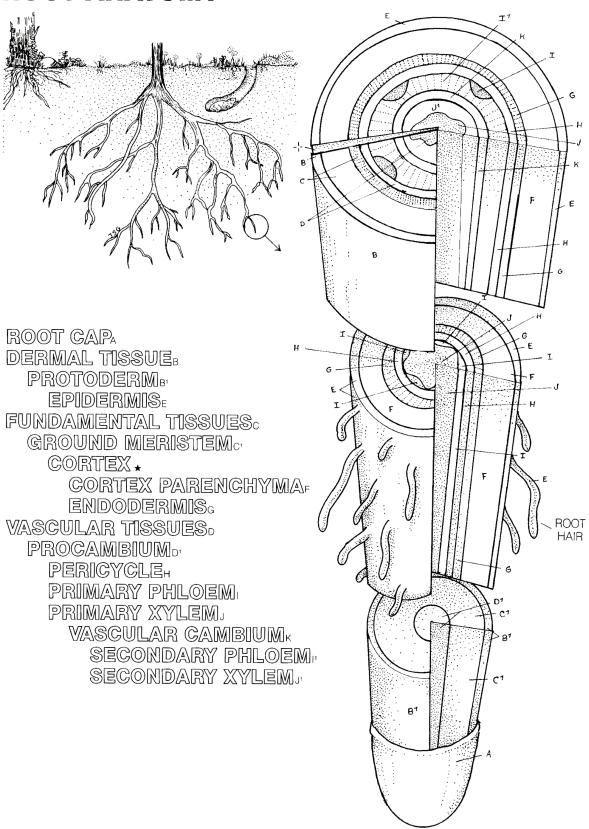


diagram from The Botany Coloring Book (1982) by Paul Young

Root Anatomy	Name:
	Period:
Follow the directions below to color-code the diagram and to answ p.374-375 of your textbook to help you. Use colored pencils, and c part of the instructions.	•
For this exercise, you will be identifying various parts of a plant root part) to their function (job). The root structure of plants is usually to supply the plant with what it needs to survive. Roots absorb was soil. They hold the plant firmly in the soil. They also store extra for photosynthesis.	found underground, and its function is ter and minerals from the surrounding
Carefully color the letters of title ROOT ANATOMY in black \hdots . You anatomy applying only to human body parts. Well, it applies to ani studying anatomy, you are studying the $\textbf{structures}$ found in organi of those parts.	mal and plant parts, too. If you are
In the list of terms down the left side of the paper, find DERMAL TIBLE light brown or tan \square . Also, color the terms PROTODERM and EPAII of these structures are basically the "skin" of the root. Now, using part of the diagram labeled with a B \square , B1 \square , or E \square . Don't forgo	IDERMIS light brown or tan as well □. ng light brown or tan again, color any
1. What are the two functions of the epidermis and root hairs? Hint	t: reread p.375.
1—	
1— 2—	
In the list of terms, find ROOT CAP, and carefully color the letters color any part of the diagram labeled with an A \Box .	orange □ . Now use orange again to
2. Roots grow at their tips. What is the function of the root cap? He	int: reread p.375.
Roots are filled with structures called vascular tissue . These are one part of the plant to another. There are two types of vascular tisterms, find PRIMARY XYLEM and SECONDARY XYLEM. Use pureach of those terms Now, using purple again, color any part of J1 3. What does yulom transport in a plant? Hint: reread a 374	ssue, xylem and phloem . In the list of rple to color just the word XYLEM for
3. What does xylem transport in a plant? <i>Hint: reread p.374</i> .	

In the list of terms, find PRIMARY PHLOEM and SECONDARY PHLOEM. Use blue to color <u>just the word PHLOEM</u> for each of those terms \square . Now, using blue again, color any part of the diagram labeled with a I \square or I1 \square .

4. What does phloem transport in a plant? Hint: reread p.374.

Practice: 5 points