Leaf Anatomy Name: Period: DERMAL SYSTEM * EPIDERMISA CUTICLE STOMATE. GUARD CELLO STOMAD-;-FUNDAMENTAL SYSTEM* MESOPHYLL. PALISADE PARENCHYMA: SPONGY PARENCHYMA AIR SPACEG-!-I STOMATE. CLOSED **OPEN** BUNDLE SHEATH

BUNDLE SHEATH EXTENSION NASCULAR SYSTEM XYLEM, PHLOEM,

Practice: 5 points

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

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Follow the directions below to color-code the diagram and to p.377-378 of your textbook to help you. Use colored pencils, part of the instructions.	•
For this exercise, you will be identifying various parts of a pla part) to their function (job). The leaf structures of plants are leaves is to make food for the plant. In doing so, they capture gases into and out of the plant.	attached to the stems. The main function of
Just like the roots and stems, leaves are filled with structures pipes that carry materials from one part of the plant to anothe xylem and phloem . In the list of terms, find XYLEM, and calculate purple again, color any part of the leaf labeled with a I \square . Structure closeup in the box labeled with a I \square .	er. There are two types of vascular tissue, refully color the letters purple $\ \square$. Now, using
1. What does xylem transport in a plant? Hint: reread p.374.	
In the list of terms, find PHLOEM, and carefully color the letter part of the leaf labeled with a J \Box . Still using blue, color any with a J \Box .	
2. What does phloem transport in a plant? Hint: reread p.374	•
Now let's look at how the leaf can control what goes in and o and carefully color the letters light brown or tan \Box . Next, use layer in the leaf closeup in the box labeled with a B \Box .	
3. What is the job of the cuticle on a leaf? Hint: reread p.378.	
In the list of terms, find GUARD CELL, and carefully color the to color any part of the leaf labeled with an C \square . Still using o	
the box labeled with an C \square .	

4. What is the job of the guard cells in a leaf? Hint: reread p.378.

Use green to color the part of the leaf that is labeled with an E \square . Next, use green again to color anything in the leaf closeup box labeled with an E \square .

5. The layer of cells you colored green contains organelles called chloroplasts. What is the job of chloroplasts? *Hint: reread p.378.*

Practice: 5 points