

THE MIGHTY PLANTOFFE

(Opportunity for Excellence)

Name: _____

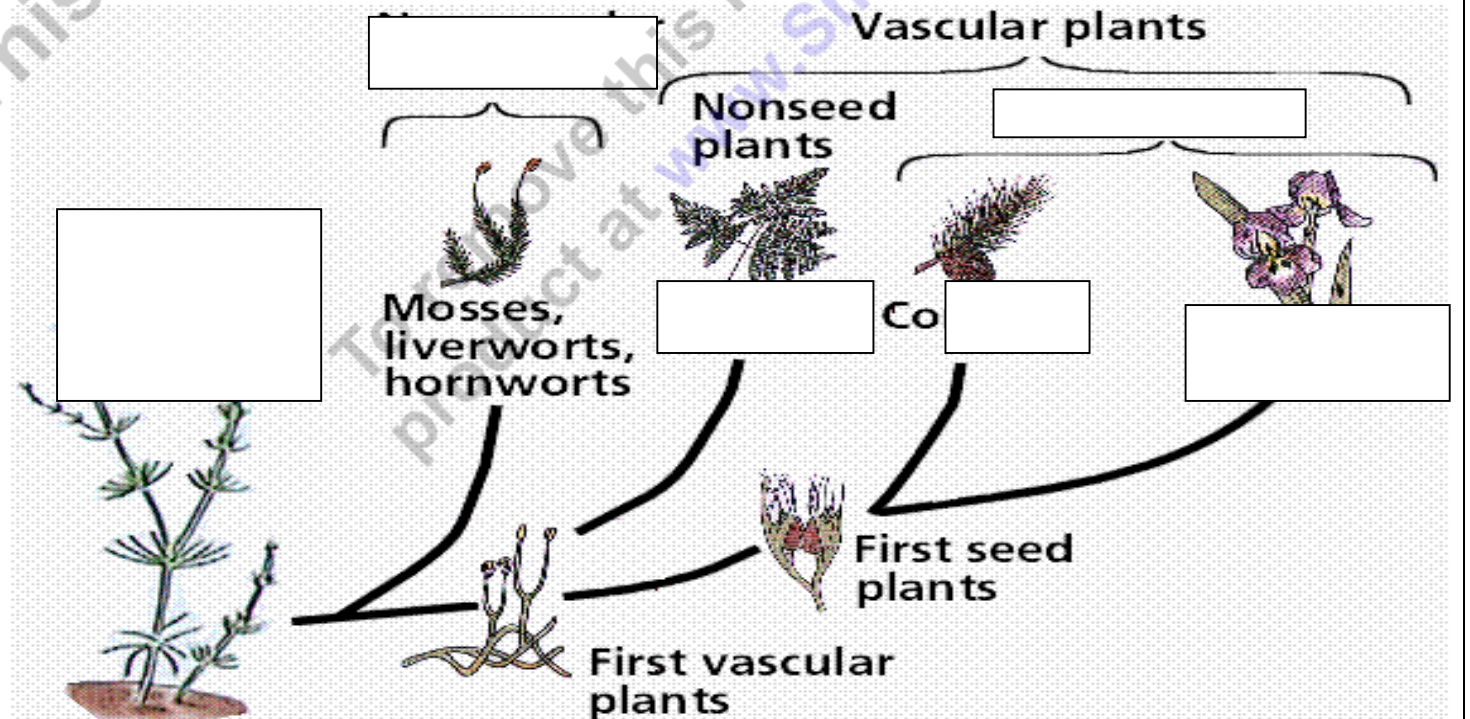
Due: _____

Please respond intelligently to the comment from the angry student below.



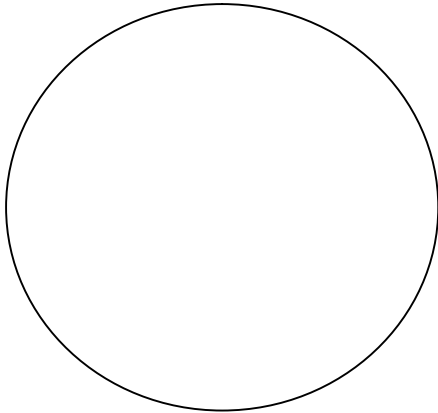
"Studying plants is a waste of my time. Plants can't even move, they don't do anything useful. Why can't we study something that is at least important to humanity." "Arrggh, I hate science"

Please fill in the boxes with the correct term from the notes.



What is Algae? Why is Algae so important to our world?

Draw algae here

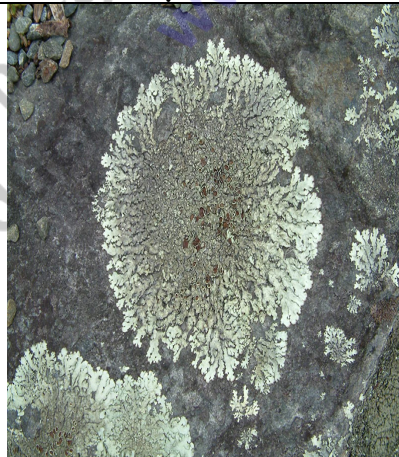


What is a lichen? Name the lichens below.

Leafy



Crusty



Branchy

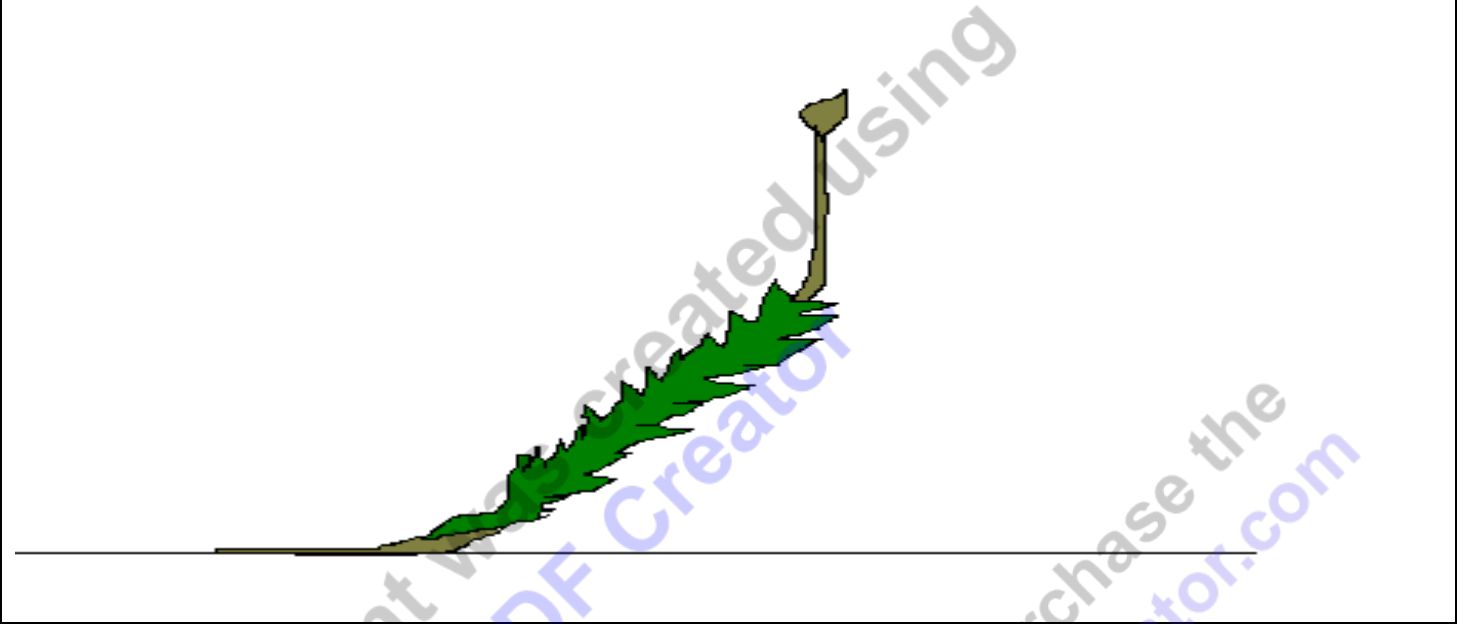


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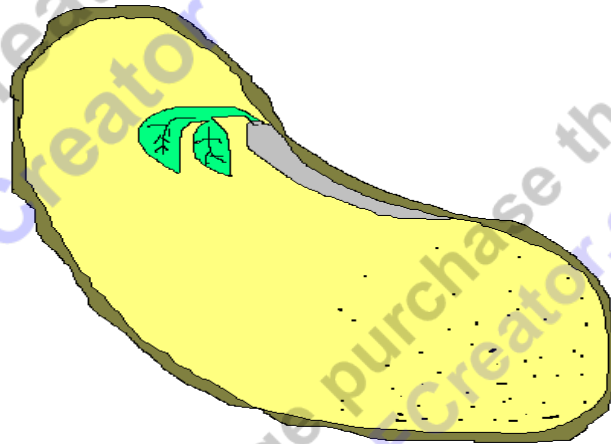
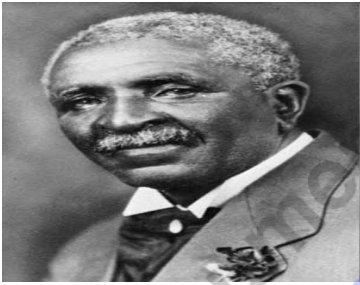
Please identify, and then label the bryophyte below?



Draw a seedless vascular plant. (Fern) Make sure to include spores under the leaves.

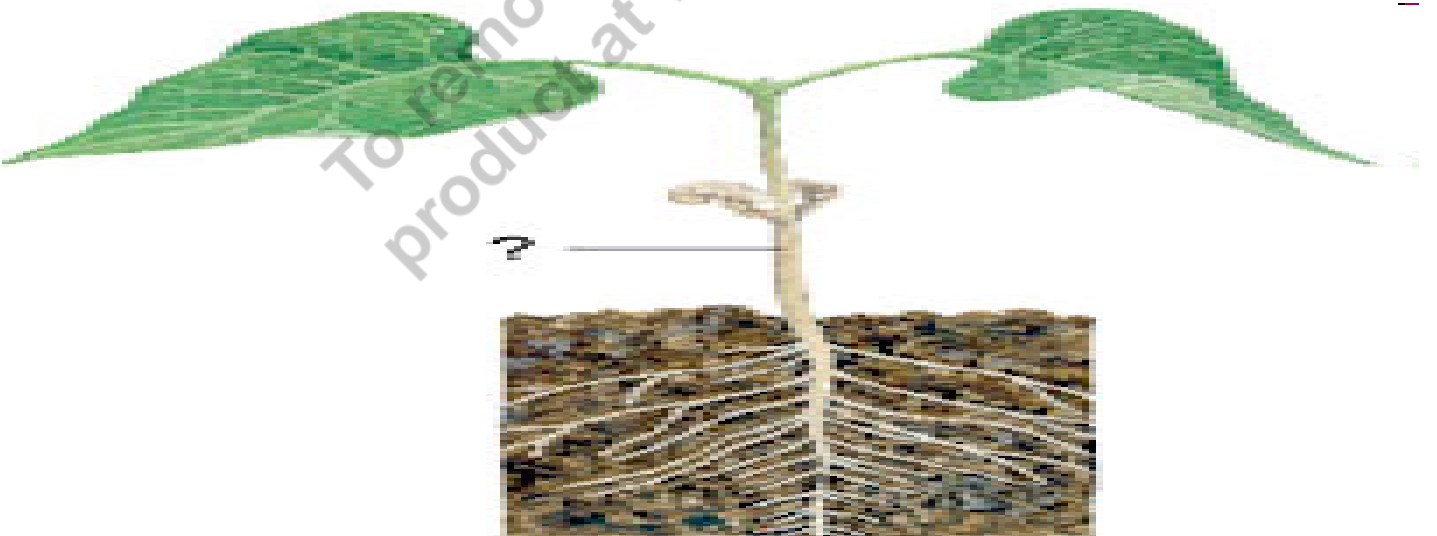
Please check off the box when each is covered below.

- ◇ What are some of the parts to the picture below? - Label them.
- ◇ What do you know about the person below? - Provide information.



Please draw an arrow to the correct part of the plant from the term.

- ◇ True Leaves
- ◇ Cotyledons
- ◇ Epicotyl
- ◇ Hypocotyl
- ◇ Radicle
- ◇ Seed Coat



Please accurately label the parts of a stem on the picture below. Please check off each box after you have used the term.

◇ Node

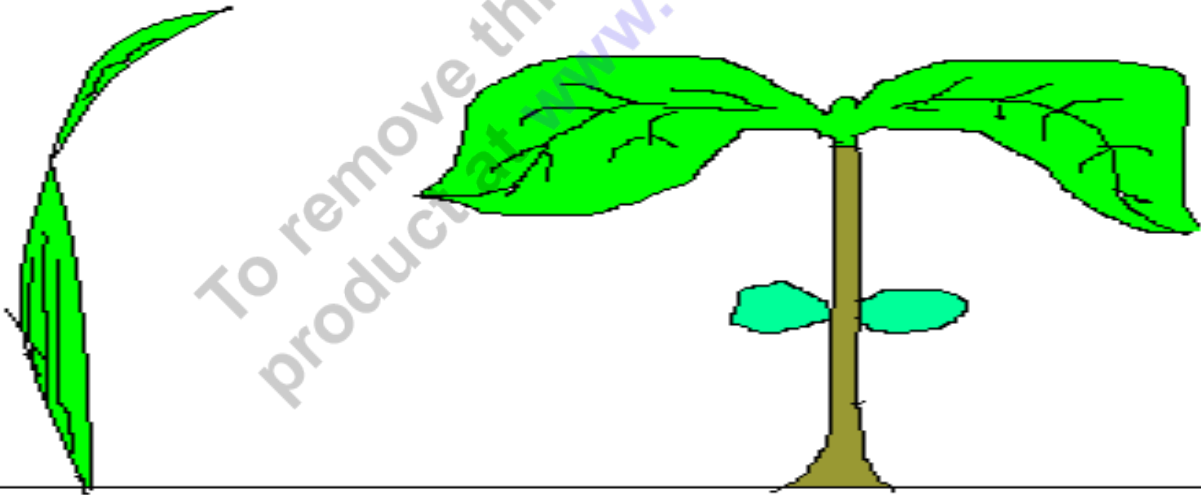
◇ Internode

◇ Petiole

◇ Stem



Which plant below is a dicotyledon (two seed leaves), and which is a monocotyledon (one seed leaf)? Explain using the pictures,

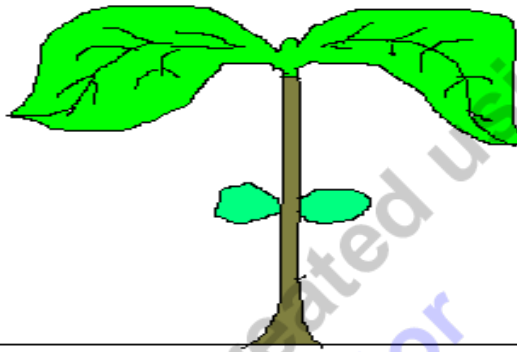


Please draw the root type below the surface.

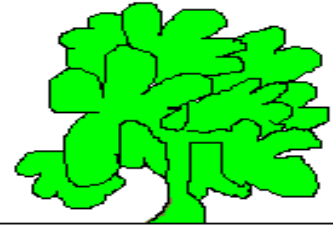
Fibrous



Taproot



Tubercular



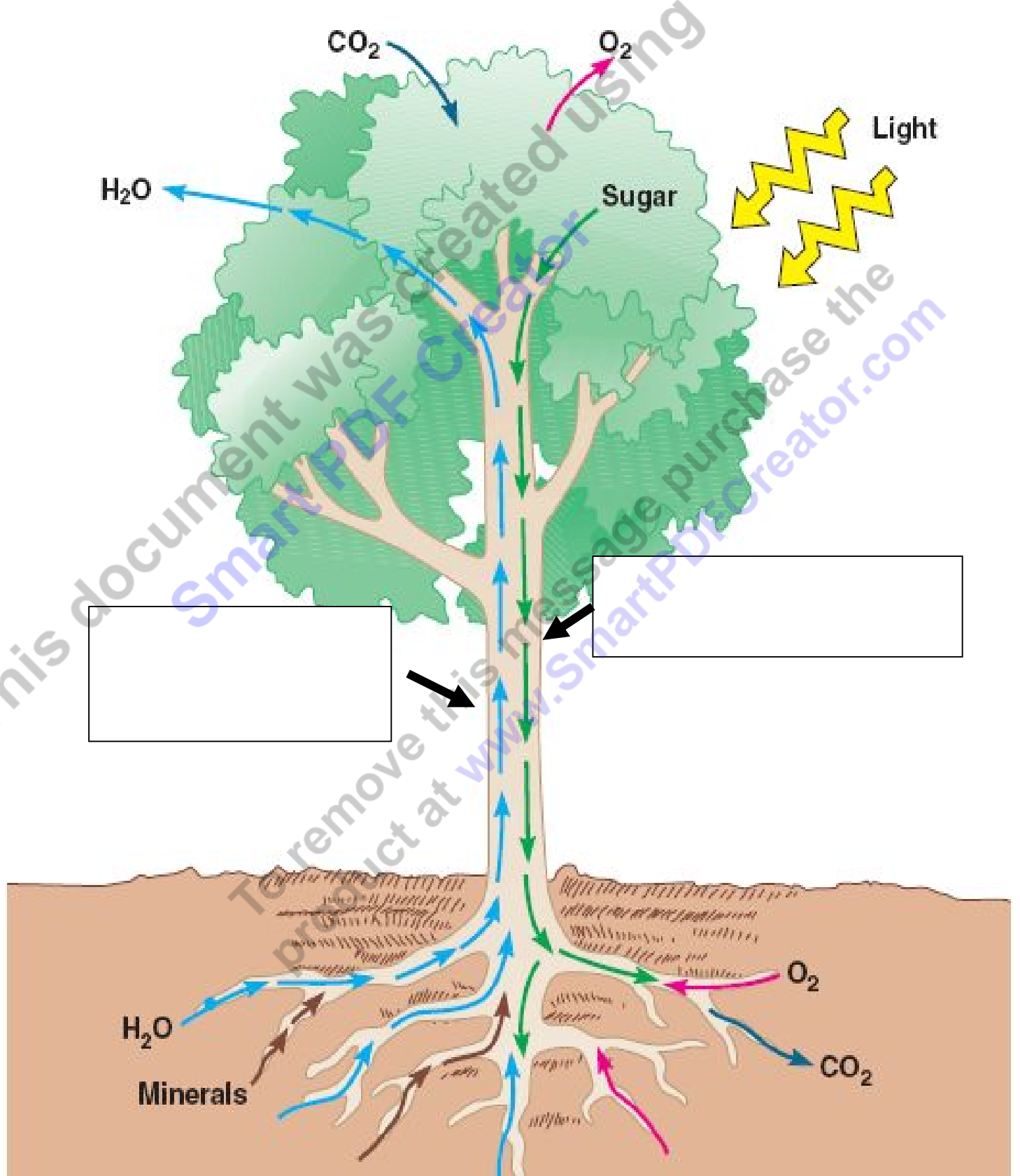
Root
Hairs



Please provide information about one plant hormone below.



Which box is xylem and which box is phloem? How do you know? Can you name any other parts of this picture?



Please cross off each diamond after that questions has been answered.

◇ Please label the cross-section of the tree below with the correct terms.

◇ Cambium

◇ Pith

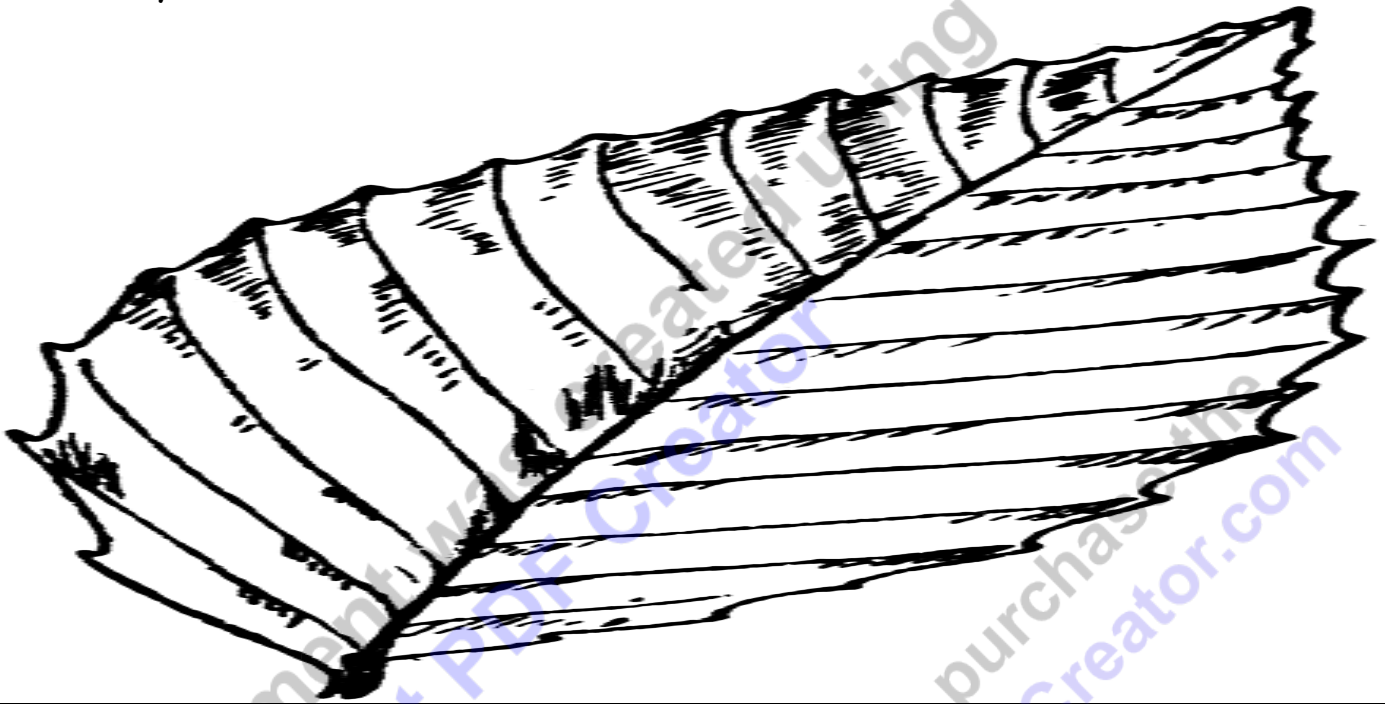
◇ Sapwood

◇ Heartwood ◇ Inner bark ◇ Outer bark

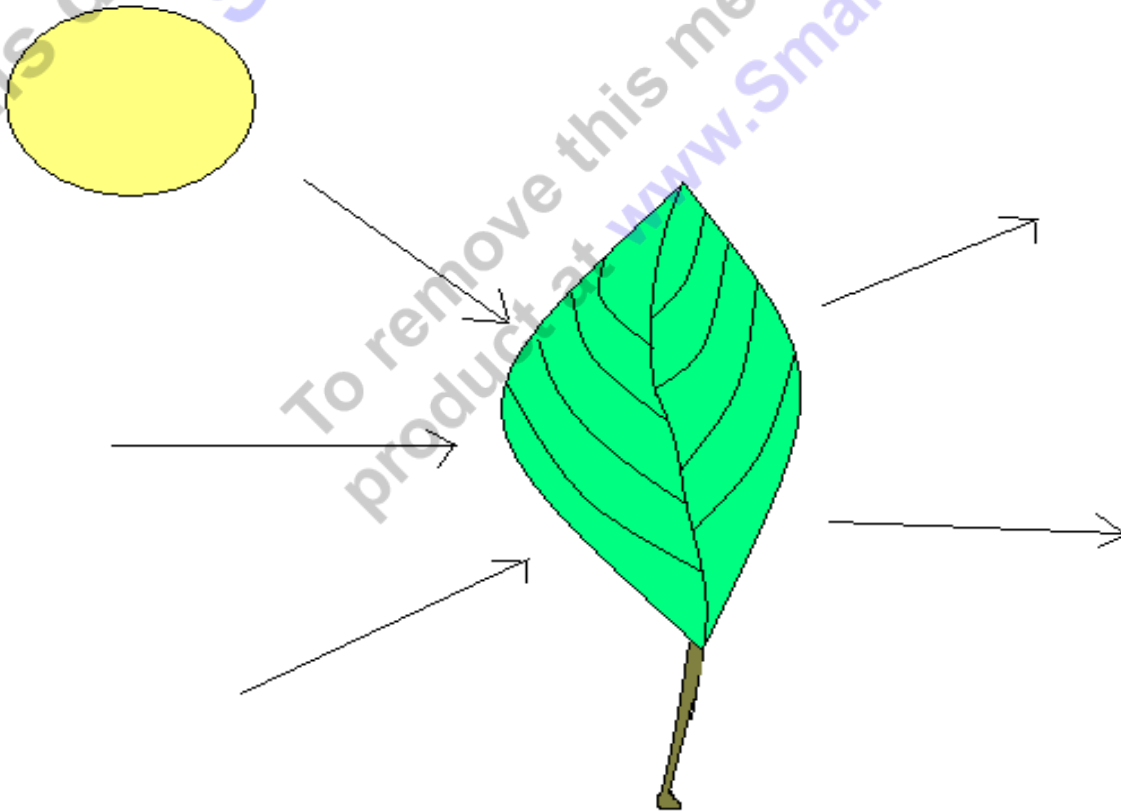
◇ How old is this tree? Can you count the rings? _____ years old.



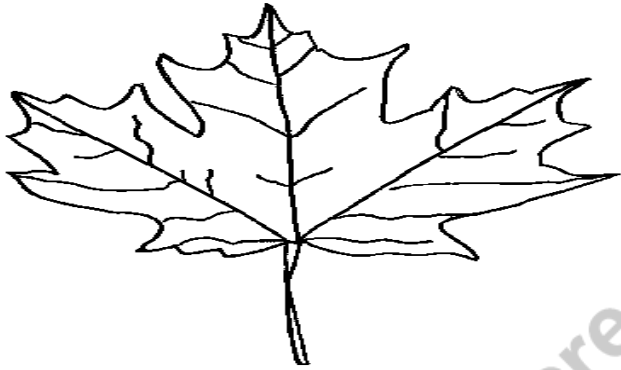



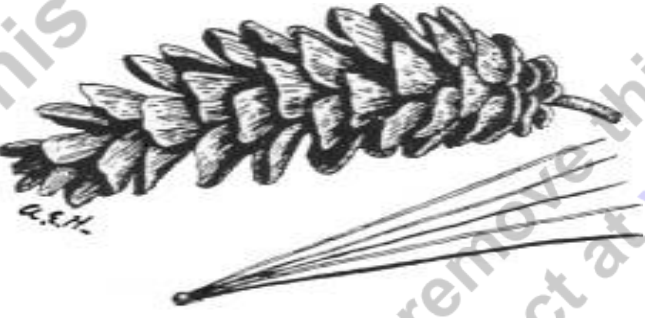
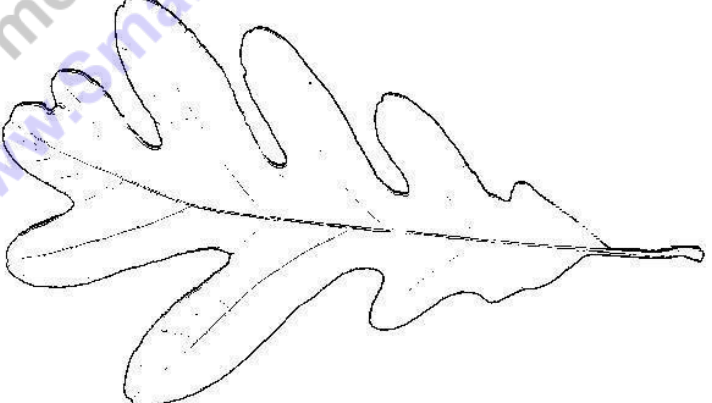
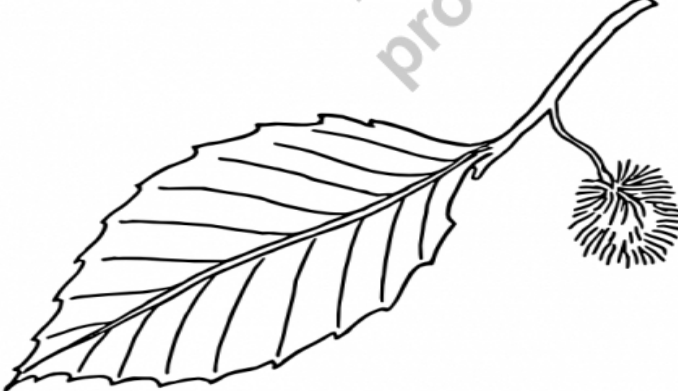
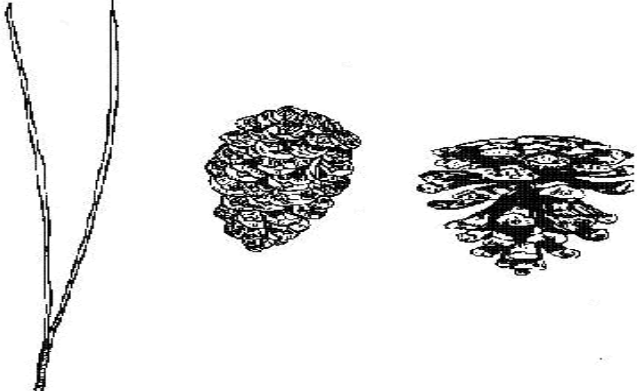
Define a leaf in the space below. You are allowed to write on the leaves veins if you want.

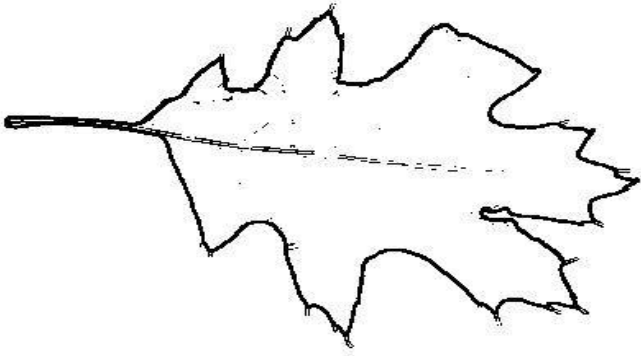


Please add the correct terms next to the arrows to show what goes into and out of a plant when it does photosynthesis.



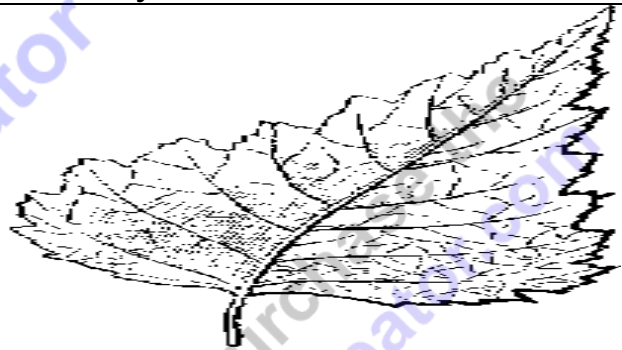
Please identify the tree based on the leaves/needles below. Sizes are not to scale!

	 <p>2 white lines</p>
	
 <p>5 needles</p>	
	

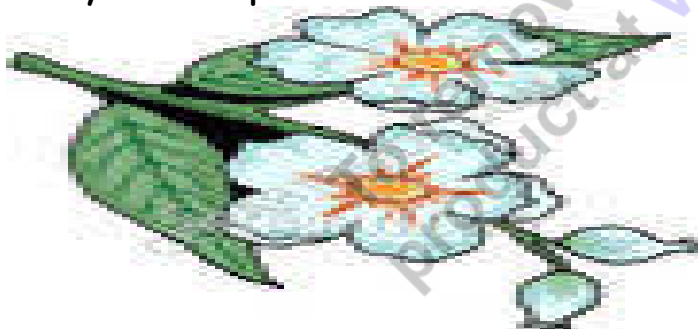


Friendly to the touch

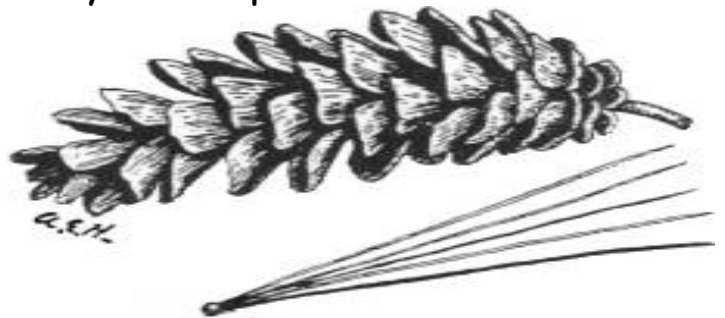
Spiky to the touch



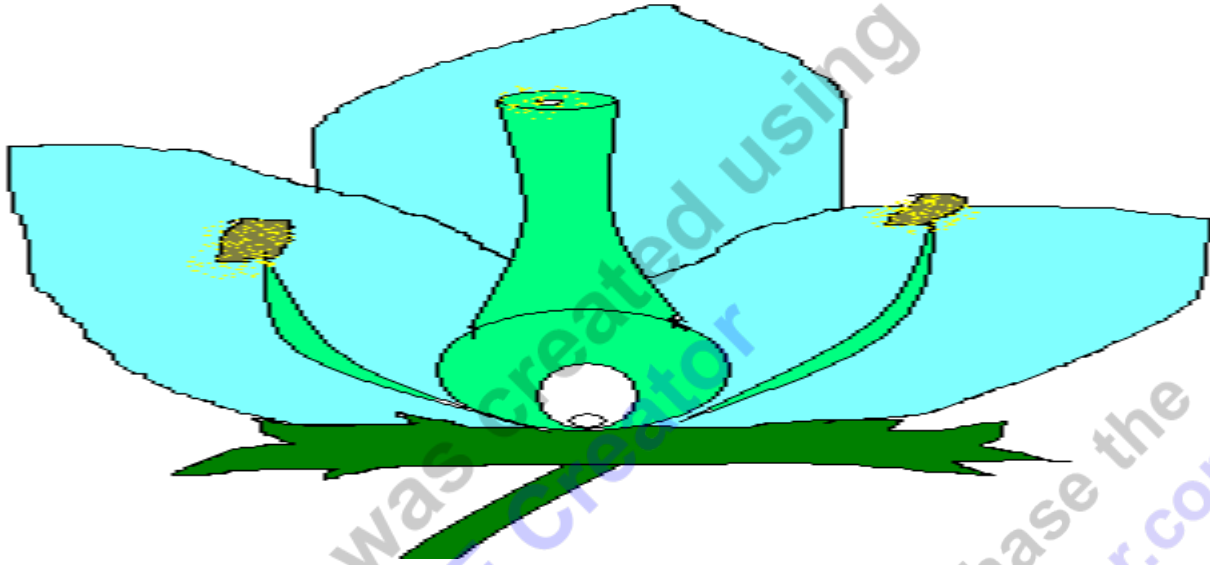
Am I an Angiosperm or a Gymnosperm? Provide a rationale for your response.



Am I an Angiosperm or a Gymnosperm? Provide a rationale for your response.



Please label the following parts of a flower using the template below.
Make a reference to the male and female portions of the flower.



Please label the parts of the fruit using the picture below.

- ◇ Endocarp
- ◇ Mesocarp
- ◇ Exocarp
- ◇ What type of fruit is this apple? Why?



GREAT WORK! THIS WAS A DIFFICULT OFE.

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