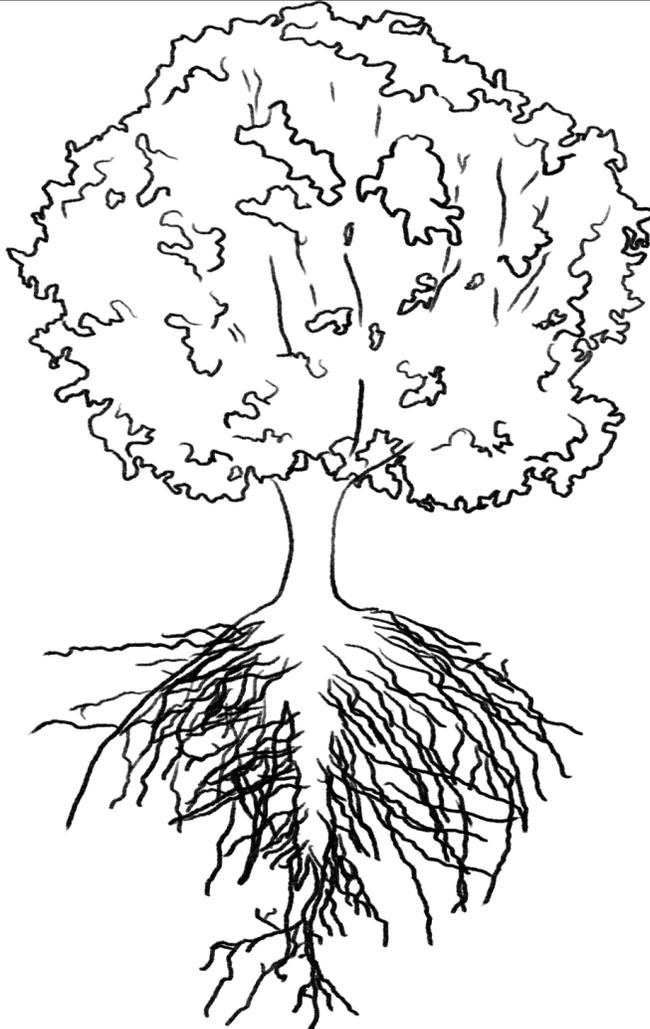
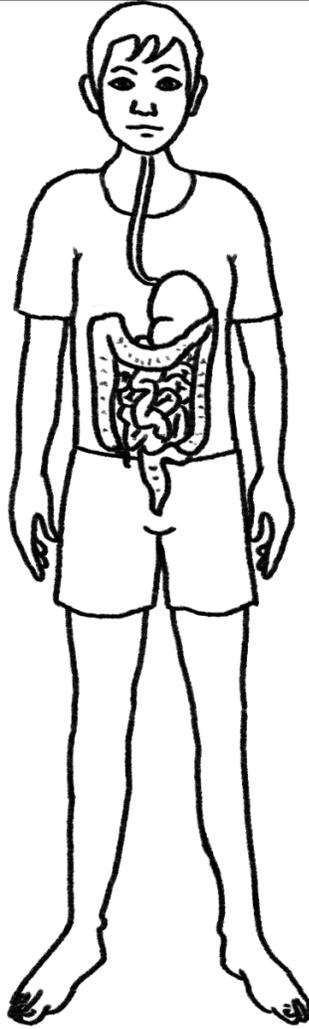


Name \_\_\_\_\_ Teacher \_\_\_\_\_ Date \_\_\_\_\_

## 6.3 Comparing a Growing Tree and a Growing Child Worksheet

Compare the pathways that carbon atoms take through a growing tree and a growing child.

 <p>Draw arrows to show where carbon atoms enter the tree and the pathway through the tree that they take to reach its growing root.</p>	 <p>Draw arrows to show where the carbon atoms enter the child and the pathway through the child that they take to reach a growing leg muscle.</p>
--	---

Tell the story of what happens to the carbon atoms as they travel through the tree and the child by completing the table on the next page.

## Telling the story of the carbon atoms

Use the table below to tell a step-by-step story of what happens to the carbon atoms in the tree and the child.

<b>Stage in the story</b>	<b>Tree story</b>	<b>Child story</b>
<b>Words to use:</b>	Include these words in your tree story (you can use a word more than once): <ul style="list-style-type: none"> <li>• Photosynthesis</li> <li>• CO<sub>2</sub></li> <li>• Glucose</li> <li>• Small organic molecule</li> <li>• Large organic molecule</li> <li>• Biosynthesis</li> <li>• Cellular respiration</li> </ul>	Include these words in your child story (you can use a word more than once): <ul style="list-style-type: none"> <li>• Digestion</li> <li>• CO<sub>2</sub></li> <li>• Glucose</li> <li>• Small organic molecule</li> <li>• Large organic molecule</li> <li>• Biosynthesis</li> <li>• Cellular respiration</li> </ul>
<b>1. Entering the tree or child:</b> Explain where and how carbon atoms enter the tree or child and what kind of molecules the atoms are in.		
<b>2. First chemical change:</b> Describe the first chemical change that rearranges the atoms into more useful molecules.		
<b>3. Traveling:</b> Explain how the molecules with carbon atoms move...	...to a cell in the root of the tree.	...to a cell in the leg of the child.
<b>4. Cellular growth:</b> Explain how the cell changes some molecules to grow and divide into more cells.		
<b>5. Cellular energy:</b> Explain how the cell changes some molecules to get energy for growth and cellular work.		