Unit 4 Name:

Date:

4-2: Trees Presentation

**Question**What makes trees unique?Answer the following questions

1. Construct a pamphlet or PowerPoint with relevant images and diagrams in which you identify and explain the following:• the difference between trees and other plants? /1• the difference between both deciduous and coniferous trees. /2• how trees are involved in the water cycle /4• how the process of photosynthesis works /5• how food (sugar), water, and nutrients are transported in the tree and in which

 layers of the trunk they are transported /2• the purpose of the roots, trunk, leaves, and seeds /4

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Total: /18 marks

1. Identify these unknown leaves below. Use the dichotomous key on the next page to identify the trees from which the leaves come. /9 marks

A B C

  

D E F

  

G H I

  

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| **Dichotomous Tree Key** |
| 1a. If the leaves are needle-like (conifer)1b. If the leaves are broad and flat (deciduous) | Go to 2Go to 5 |
| 2a. If the needles are not clustered or bunched – (they are single on twigs)2b. If the needles (leaves) clustered or bunched on twigs | Go to 3Go to 4 |
| 3. If the needles are four-sided and sharp-pointed | Spruce |
| 4a. Clusters of 2-5 needles 4b. Clusters of greater than 10  | PineLarch/Tamarack |
| 5a. Leaves opposite on stem5b. Leaves alternate on stem  | MapleGo to 6 |
| 6a. Leaves simple 6b. Leaves compound | Go to 7Black Walnut |
| 7a. Leaf edges (margins) not deeply cut, lobed, or toothed 7b. Leaf edges (margins) deeply cut, lobed, or toothed  | Go to 9Go to 8 |
| 8. If your tree has lobed leaves | Oak |
| 9a. Leaves very narrow, 4 or 5 times as long as wide 9b. Leaves broad  | WillowGo to 10 |
| 10a. If the stem appears to be flattened 10b. The stem is not flattened | AspenGo to 11 |
| 11. If the leaf appears serrate, and the base is slightly heart-shaped | Birch |

1. Using the diagram below answer the following questions.

****A. About how old was this tree when it was cut?(/1 mark)

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B. If the tree were alive, draw an arrow labelled A to where the tree's new growth would be?(/1 mark)

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C. Draw an arrow labelled B to identify where the tree's first year of growth is shown.(/1 mark)

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D. Draw an arrow labelled C to identify the tree's growth during a rainy season. (/1 mark)

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Total: /31 marks

Save Your File

Name your file in this format: 4-2\_(jsmith)sc6-uniquetrees and save your file to your Trees and Forests Notebook folder. Submit to the appropriate Submission folder when completed.