

**Forest Sustainability  
Tree Data Collection Sheet**

Date: \_\_\_\_\_

Group Names: \_\_\_\_\_

**AIM: To study the growth rate of trees**

1. **Tree Specifics:** *With 45 different native species of trees here in Nova Scotia, it is important to know and understand what tree or group of trees that you are dealing with. Each tree has its own genetic make up and growth characteristics.*

**Tools:** Calipers, haga (height finder), tree identification keys & increment borer.

**Method:** Select one tree and determine the following information from it; species, diameter, height, health/vigor and age.

**Results:** 1) **Species:** \_\_\_\_\_

2) **Height:** \_\_\_\_\_ m

3) **Diameter** \_\_\_\_\_ cm

4) **Age** \_\_\_\_\_ yrs.

5) **Health/Vigor:** (General description by observing overall health; signs of decay, wildlife/insect damage. stress, etc.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. **Tree Growth Pattern:** *The growth of a tree is indicated by its annual rings.*

**Tools:** Increment Borer, ruler

**Method:** Using the increment borer, remove a sample of the inner core of the tree. This will not hurt the tree, but it is important that you get a good sample including the "pith" (centre) of the tree.

In the space provided below transpose a duplicate of the core that you removed from the tree.

<b>Tree Core</b>
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**Results:** 1) What year produced the greatest growth rate: \_\_\_\_\_ year

How much \_\_\_\_\_ cm

2) What year produced the least growth rate: \_\_\_\_\_ year

How much \_\_\_\_\_ cm

3) What was the average growth rate of this tree \_\_\_\_\_ cm