

Growth Rings Worksheet

Name _____

Period _____

Trees A, B & C.

Tree A: Sampled in 2010



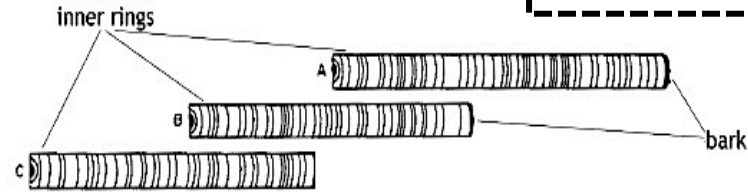
Tree 1

Tree 1: Cut in 2010

first year growth
rainy season
dry season
scar from forest fire



- Use a pencil to mark each growth ring (year of growth) on Tree 1 ↖.
- The fire happened in the year _____. The tree was cut at age ____ yrs.

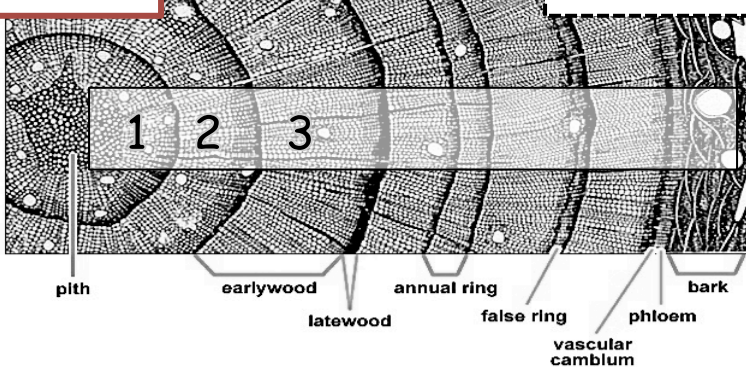


- Of the three trees, A, B & C, Tree _____ lived most recently.
- Starting at left, use a pencil to mark each 10 years for Tree C. On a 10, move directly up ↑ to Tree B. Continue counting..& then on a 10, move directly up ↑ to Tree A. Continue counting.
- How many years from the start of Tree C to the cutting (end) of Tree A? _____
- Determine the year that Tree C started growing. _____

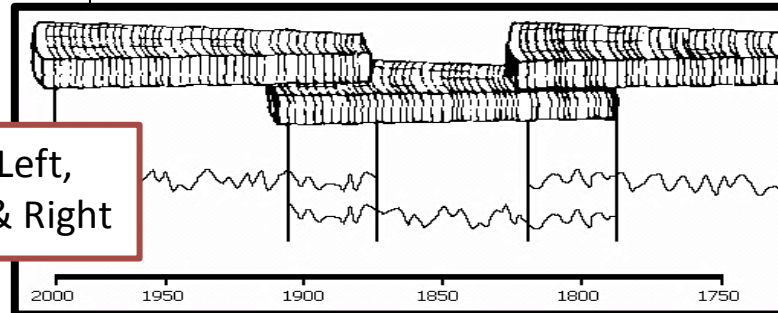
Tree 2

Cross Section of a CONIFER

Microscopic View



Trees Left, Middle & Right

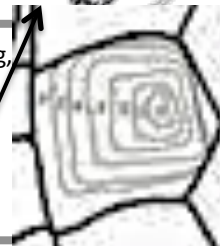
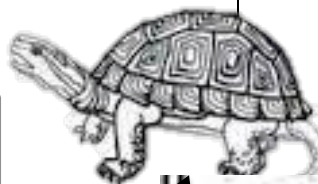


- Continue to number each year's growth ring. The tree was ____ years old.
- Its ____ year was its best growing season. The ____ year was its worst.

Animals

Growth rings show times of rapid growth. In trees, this is usually each spring, and evidence of age in years. In animals, rapid growth "rings" show up on shells, scales, & hooves. Rings might match years of life, but DO match cycles of growth.

- Count the tortoise's growth rings →. This tortoise has had _____ molts (maybe years).



Historians & Scientists use Growth Rings to show historical events back farther than the age of any one organism.

- Above is an example of samples from 3 trees that lived in the same area but didn't all live at the same time. ↑The oldest, or the tree that lived the longest ago, is on the _____ (left, right, middle). **Label the image.**
- It was cut about the year _____. **Label the image.**
- Since all of the trees were in the same area, they should all show evidence of the climate, weather or event(s) when they were alive. They may react differently, but there should be a pattern of good and bad years. Good growth years show by _____.
- Find 3 good years in a row. **Label & estimate the year(s).** _____
- Middle tree shared more bad growth years with tree ____ than with tree ____, at about year ____ . **Label the image.**