

CHESSIE SCIENCE SCHEDULE
Group 4A & 4B Tree Unit

Reading material:

ABeka gr.7 Order & Reality

Online Tree ID Guide

http://dof.virginia.gov/resources/edu/pub_Native-Trees-Va_2009.pdf

****Parents, it is easier to go to the handout page of the website and open the schedule there to click on the website addresses. Don't type them in, but go there to click on links..*

9/3

Tree Unit begins today!

Observing Leaves, leaf arrangements, leaf margins, compound or simple

Prior to class:

Read: Science, Order & Reality (grade 7) p62-66

Complete: Brain Drain Questions p66

Hand in: Brain Drain answers should be written on a sheet of paper to be checked during class each week of this unit.

Read: Go to the following website and read 'Benefit of trees <https://www.arborday.org/trees/benefits.cfm> & 'The value of trees to a community'

https://www.arborday.org/media/stormrecovery/7_valueoftrees.cfm

Collect: Students will collect leaves from 8 trees for a tree booklet. Begin working on your collection. See handout for collection instructions.

Classtime: parts of a tree, types of needleleaf trees, mystery item #1, annual rings, leaf arrangements, leaf margins, compound or simple leaves, leaf venation

Optional Website suggestions:

<https://www.dkfindout.com/us/animals-and-nature/plants/trees/>

This is an interactive tree activity which is awesome! Click on each colored dot to learn more about that part of the tree. Try the plant quiz. How did you do?

<http://www.sciencekids.co.nz/sciencefacts/plants/trees.html>

Fun tree facts for kids

<http://www.ducksters.com/science/trees.php>

9/10

Photosynthesis and Respiration, Process of Photosynthesis, Products of Photosynthesis, Process of Respiration,

Prior to class:

Read: Order & Reality (grade 7) p68-70

Complete: Brain Drain Questions Order & Reality p72

Classtime: What was the answer to tree mystery #1? What tree has a knee? Comparing tree nuts and fruits, Guess that tree students will receive mystery #2

Collect: Continue working on your tree booklet to have ready on Oct 1st.

(over)

9/17

Anatomy of a tree, right tree in the right place

Read: 'anatomy of a tree'

[https://www.arborday.org/trees/treeguide/anatomy](https://www.arborday.org/trees/treeguide/anatomy.cfm)

[.cfm](https://www.arborday.org/trees/treeguide/anatomy.cfm) Page 1 'right tree in the right place'

[https://www.arborday.org/trees/rightTreeAndPlace/size.](https://www.arborday.org/trees/rightTreeAndPlace/size.cfm)

[cfm](https://www.arborday.org/trees/rightTreeAndPlace/size.cfm) Page 2 'right tree in the right place'

[https://www.arborday.org/trees/rightTreeAndPlace/shap](https://www.arborday.org/trees/rightTreeAndPlace/shape.cfm)
[e.cfm](https://www.arborday.org/trees/rightTreeAndPlace/shape.cfm)

Complete: Homework handout for today

Classtime: What was the answer to mystery #2, students will receive mystery #3, Painting leaf prints while identifying what tree it came from.

Collect: Continue working on your leaf collection booklet

9/24

Tree identification walk around the church area

Website youtube video:

https://www.youtube.com/watch?v=ik3l4U_17bI This Crazy Tree Grows 40 Kinds of Fruit! (National Geographic film). *This is truly amazing! Sam Van Aken, an artist and professor at Syracuse University, uses "chip grafting" to create trees that each bear 40 different varieties of stone fruits, or fruits with pits. The grafting process involves slicing a bit of a branch with a bud from a tree of one of the varieties and inserting it into a slit in a branch on the "working tree," then wrapping the wound with tape until it heals and the bud starts to grow into a new branch. Over several years he adds slices of branches from other varieties to the working tree. In the spring the "Tree of 40 Fruit" has blossoms in many hues of pink and purple, and in the summer it begins to bear the fruits in sequence—Van Aken says it's both a work of art and a time line of the varieties' blossoming and fruiting. He's created more than a dozen of the trees that have been planted at sites such as museums around the U.S., which he sees as a way to spread diversity on a small scale.*

Read: Handout titled 'Grafting Trees: What is Tree Grafting'

Complete: Answer the questions on the handout covering the topic of grafting

Classtime: Tree identification walk, what was the answer to tree mystery #3? Students will receive tree mystery #4.& planting a tree.

10/1

Bring your completed tree booklet with leaves and bark rubbings to share
In class today. Don't forget!

No other homework today

Classtime: Tree booklet sharing. Try to find at least one leaf and bark rubbing from a tree that no one else will find! Students will give their answer to tree mystery #4