

<b>Title of Lesson Plan</b>	Replanting my House
<b>Prepared By (first and last name)</b>	Ed Lewis
<b>City and State</b>	Bremerton, WA
<b>Grade Level(s)</b>	10-12
<b>Keywords (subjects covered)</b>	Board feet, Renewable
<b>Brief Description</b>	During this lesson the students will determine how many board feet it will take to build a 3-bedroom house. Then the student will predict how long it will take to grow enough trees to replace the lumber used in the building of the house.
<b>Total Time Required</b>	Three 90-minute class periods.
<b>Setting</b>	Math classroom
<b>Lesson Objectives/Goals</b>	To help the student realize the potential for lumber as being a renewable resource.
<b>Materials Needed</b>	Ruler/Tape Measure
<b>Standards Addressed</b>	<p><b>Components of the Class include:</b></p> <p><b>Essential Learning 1.1-</b> The student understands and applies the concepts and procedures of Mathematics: Number Sense.</p> <p><b>Essential Learning 1.2-</b> The student understands and applies the concepts and procedures of Mathematics: Measurement.</p> <p><b>Essential Learning 1.3-</b> The student understands and applies the concepts and procedures of Mathematics: Spatial Sense.</p> <p><b>Essential Learning 5-</b> The student makes mathematical connections</p>
<b>Procedure</b>	<p>Student will contact a building contractor to determine how much lumber is required to build a 3-bedroom house.</p> <p>Student will convert the amount of lumber into total board feet.</p> <p>Using data presented in class the student will determine how many trees must be planted and how</p>

**Lesson Plan Disclaimer**

*The ideas and guidelines contained in the lesson plans do not necessarily reflect the opinions of The Temperate Forest Foundation. Lessons may be submissions from educators and have not been tested in classrooms by The Temperate Forest Foundation. They are published online as a service to help educators share ideas with other educators.*

*These lesson plans are for personal use only and may not be republished or redistributed by any method now known or developed in the future.*

<b>Procedure con't</b>	many years it will take for the trees to grow to harvestable size in order to replace the lumber used in building a house.
<b>Assessment</b>	<p>Student comes up with a "reasonable estimate" of how long it will take to grow the trees.</p> <p>Student will give an oral presentation of how they determined the number of trees and length of time it will take the trees to grow.</p>
<b>Literature Cited/References</b>	<p><a href="http://www.woodzone.com/tips/board_feet/board_feet.htm">http://www.woodzone.com/tips/board_feet/board_feet.htm</a></p> <p><a href="http://www.saw-online.com/Tips/bdft.htm">http://www.saw-online.com/Tips/bdft.htm</a></p> <p><a href="http://www.woodworkerssource.net/popups/bf.html">http://www.woodworkerssource.net/popups/bf.html</a></p> <p><a href="http://www.utdanacenter.org/highered/alg2/downloads/IV-B-CourseContentAlgII/AlgII_1-3-5.pdf">http://www.utdanacenter.org/highered/alg2/downloads/IV-B-CourseContentAlgII/AlgII_1-3-5.pdf</a></p> <p><a href="http://tropicalhardwoods.com/projections.htm">http://tropicalhardwoods.com/projections.htm</a></p>
<b>Forestry Tour Attended</b>	Portland, OR 2007

- The Temperate Forest Foundation reserves the right to modify, revise, and reformat lesson plans for quality and appropriateness.
- Lesson plans submitted to us may be hosted on our web site: [www.forestinfo.org](http://www.forestinfo.org) and may be shared with other teachers across the nation.
- Lesson plans are for individual classroom and educational use only. We reserve the right to publish lesson plans and lesson plan summaries on any of the Temperate Forest Foundation's publications (emails, newsletters, etc.).

**Lesson Plan Disclaimer**

*The ideas and guidelines contained in the lesson plans do not necessarily reflect the opinions of The Temperate Forest Foundation. Lessons may be submissions from educators and have not been tested in classrooms by The Temperate Forest Foundation. They are published online as a service to help educators share ideas with other educators.*

*These lesson plans are for personal use only and may not be republished or redistributed by any method now known or developed in the future.*