



TREE TRIG
Age: Sapling
Beech Tree
Tree Location _____

Microsoft Office Clipart



Materials:

- **Tell Me, Tree* by Gail Gibbons
- *String
- *Measuring Tape
- *Graph paper
- *Pencil
- *Marker
- *Tape



Activity:

- *Observe the tree you are looking at.
- *The first activity involves finding the circumference of the tree. Start by taping one end of the string to the tree and then walk around the tree. Once you get all the way around the tree mark the string where the two ends meet. Then, take your marked string and lay it on the ground in a straight line. Use the measuring tape to find the length of the string. This length will give you the circumference of the tree.
- *The next activity involves area. Take one of the leaves that have fallen from your tree. Trace the outline of your leaf on the graph paper provided. Once you have traced the leaf on the paper, lightly color the inside. Then, count the number of boxes that are colored by the leaf; this gives you the area of that particular leaf in inches.
- *The last activity is to find the height of the tree. First, guess how tall you think the tree is and write it down to compare to later. Next, measure your height to find out how tall you are. Then, stand next to the tree and have someone measure the length of your shadow (in feet). After your shadow is recorded, measure the length of tree's shadow.
- *Divide the length of the tree's shadow by the length of your own shadow. Multiply this answer by your height. This process will tell you how tall this tree is.

Tree's Shadow

$$\text{Student's Height} \times \frac{\text{Tree's Shadow}}{\text{Student's Shadow}} = \text{Tree's Height}$$

- *Now that you have learned some characteristics of this certain tree, read *Tell Me, Tree* by Gail Gibbons at home or school. When you read this book discover how trees grow. Read about the different things that are necessary in helping a tree grow.
- * Record at least 3 things you learned a tree needs in order to be healthy and grow strong!

