



Technology Integration Lesson

Plainville Community Schools

LESSON TITLE: Protecting the Deciduous Forest, Leaf Identification

GRADE: Fourth

OBJECTIVE: Students will use Graph Club to graph the results of their leaf identification

CURRICULUM CONNECTION:

Science:

B10. Describe how animals, directly, or indirectly, depend on plants to provide the food and energy they need in order to grow and survive.

B11. Describe how natural phenomena and some human activities may cause changes to habitats and their inhabitants

Math:

3.1.1 Gathers information using tally marks

3.1.2 Creates pictographs and bar graphs from data in tables and charts

3.2.1 Uses appropriate mathematical language to make comparisons and draw reasonable conclusions about the data

MATERIALS: Leaf identification data sheet, Graph Club, computer, printer, SmartBoard if available to demonstrate

PROCEDURE: (Read to students)

Today we're going to use Graph Club to graph the results of our leaf identification activity.

1. Launch Graph Club and select the option to create a new graph.
2. Click on the Choose Symbols button,
3. Use the first letter of the name of each tree for the symbols. Change the colors to any four (different ones) that you would like to use. Click the OK button when you have finished.
4. Right now our graph only allows us to have up to ten of each type of tree. We're going to change that to twenty.
5. Click on the word Graph on your menu bar. Select Choose Scale Maximum. Select 20 and click OK.
6. Look at your leaf identification sheet. Count how many maple trees you identified. Add that many M symbols to the M column, on either the pictograph or bar graph side.
7. Notice that since our scale is set to 20 it only adds half of a letter at a time. A full letter represents two trees. Our graph tells us this in the scale, which is in the upper left hand corner.
8. Do the same thing for oak trees, spruce trees and birch trees. When you have finished adding your data look back at your leaf identification sheet. Notice the questions at the bottom of the page. Use the notebook area to answer those questions.
(Allow work time until about 10 mn. before the end of class, then move on to the next step together.)



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9. We need to add a title to our graph. Click on the word Title. In the title box type _____, and click the OK button.
10. Click on the Y-axis label. Change it to say _____.
11. Click on the X-axis label. Change it to say _____.
12. Now it's time to print our graphs. Click on File. Select Print Graphs.
13. Type your name in the name box.
14. Make sure you have checks next to the name box, the title box, and the notes box.
15. Make sure that there are checks to print the picture graph and the bar graph,
16. Print size should be set to normal.
17. Bar or circle fill should be set to solid.
18. Click the blue print button.

EVALUATION: Teacher created rubric or teacher observation.