



# Technology Integration Lesson

## Plainville Community Schools

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**LESSON TITLE:** Sorting and Graphing

**GRADE:** Two

**OBJECTIVE:** Students will be able to sort short vowel pictures into appropriate categories, and then graph the results.

*Note: This lesson utilizes a template which can be used for sorting by categories other than vowel sounds.*

**CURRICULUM CONNECTION:**

Language Arts

1.3.a.1 apply knowledge of letter-sound correspondence

Math

3.1.1 Interprets and creates tables, charts, and graphs

3.2.2 Uses data from graphs to make comparisons

4.2.1 Sorts objects into groups using two or more attributes

**MATERIALS:** Kidspiration, Kidspiration Template, The Graph Club, computer, printer, SmartBoard if available to demonstrate

**PROCEDURE:** (Read to students)

Today we're going to sort pictures by vowel sounds and then graph the results.

1. Open the second grade folder. (*Note: Location path may change depending upon where you've placed the template*)
2. Find the document that says Sorting Template. Double click on it.
3. Click after the word Name, and type your name.
4. Click one time on the blue category.
5. Now click one time in the label area at the top. Type (insert your own choice here if desired) Short A.
6. Label the green box short E.
7. Label the pink box short O.
8. Label the yellow box short I.
9. Now look through the picture libraries. Find pictures that have those vowels sounds and drag them to the correct box.
10. Use the corner handles of the pictures to resize them, so you have enough room for all your pictures.

*Note: It is suggested that you set a timer at this time, telling the students how long they have to find pictures. Circulate among students, checking the accuracy of their pictures.*

11. Now we're going to print out our pictures. Click on File, select print.
12. Click the blue print button.
13. We're going to use Graph Club to make a graph of our pictures.



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14. Click on the icon for Graph Club on your dock.
15. Click the Let's Graph button.
16. Click the Create Graphs image.
17. Click the choose symbols button so we can customize our symbols. (*Note: This is the little blue circle with the plus sign in it, next to the animal symbols at the top.*)
18. Change the scale maximum to 20. Click one time on the words Each=1 on the top left of your pictograph. (You can also click on Graph at the top and select Choose Scale Maximum.)
19. Click the circle next to 20, click the OK button.
20. Select the letters category. Drag the letters A, E, I, and O to replace the symbols at the top.
21. Drag new colors under each letter, so there is a different color for each.
22. Look at your Kidspiration document. Count how many pictures had the sound of short A, and fill that many in the A category on your graph.
23. Do the same thing for the other letter sounds.
24. Click one time on the word Title at the top. Change the title of your graph to tell about your graph. (*Note: Teacher guidance may be needed.*)
25. Click one time on the axis label that says What. Change it to tell about what you are graphing.
26. Click the notebook button in the bottom left of your screen if the notebook is not showing. Now answer the following questions in your notebook. *NOTE: You should have prepared the questions for them, and perhaps given it to them on a sheet of paper. This is a great place to differentiate. Also, if it is early in the year and students have difficulty typing sentences, they can print out the graphs and use their pencils to write in the answers.*
27. Now it's time to print. Click on file, select Print Graphs.
28. Type your name in the spot for name at the top. Make sure there's a check in the box for your name, title of graph, and notes.
29. Also, select what types of graphs to print on the left. Print size should be normal. *Note: Teacher should circulate checking that each student has made the correct selections.*
30. Click the print button.
31. Save if desired, or quit out of the program.

**EVALUATION:** Teacher created rubric based on items being sorted and graphed. Rubric should include evaluation on both Kidspiration sorting and Graph Club graphing, as well as the written analysis of the graph.



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EXAMPLE:

**NAME: Minnie Mouse**

Short A	Short E	Short I	Short O

The Graph Club File Edit Graph Options Teacher Help

"untitled" - Create

**A E I O**  
Short Vowel Pictures

How Many?

A	E	I	O
A	E	I	O
A	E	I	O
A	E	I	O
A	E	I	O
A	E	I	O
A	E	I	O

Vowel Sounds

"untitled" - Create

**A E I O**  
Short Vowel Pictures

How Many?

Vowel Sound	Count
A	13
E	11
I	10
O	8

Vowel Sounds

I sorted pictures in Kidspiration by their vowel sound. I found more pictures with short A than any other sound. I found the least number of short O pictures. I predict I would have found more short U pictures than I did short O pictures.