

Julia's Lesson Plan

Date: November 4, 2019

Strand/Topic: Math Behaviours/Sorting by Kind

Mini-lesson/Centres

Main Idea:

Students will continue their learning on sorting. The students have sorted by colour and size and some unintentional sorting by kind. Today they will have a lesson on sorting by kind.

Curriculum Objectives:

4.1 use a variety of strategies to solve problems, including problems arising in social situations (e.g., trial and error, checking and guessing, cross-checking – looking ahead and back to find material to add or remove)

15.2 investigate some concepts of quantity and equality through identifying and comparing sets with more, fewer, or the same number of objects (e.g., find out which of two cups contains more or fewer beans [i.e., the concept of one-to-one correspondence]; investigate the ideas of more, less, or the same, using concrete materials such as counters or five and ten frames; recognize that the last number counted represents the number of objects in the set [i.e., the concept of cardinality])

17.1 explore, sort, and compare the attributes (e.g., reflective symmetry) and the properties (e.g., number of faces) of traditional and non-traditional two-dimensional shapes and three-dimensional figures (e.g., when sorting and comparing a variety of triangles: notice similarities in number of sides, differences in side lengths, sizes of angles, sizes of the triangles themselves; see smaller triangles in a larger triangle)

20.5 investigate and describe how objects can be collected, grouped, and organized according to similarities and differences (e.g., attributes like size, colour)

About the Learners:

- 30 SK students
- Students are very active and the best way to keep them engaged is by moving
- They are always interested in books being read to them
- Most students find engagement in sharing their ideas with the class
- Writing is not their favourite activity, but they enjoy watching us write on chart paper

Learning Expectations:

Learning Goal:

*sorting is putting things in groups following a rule
I can sort things and say my sorting rule.

Success Criteria:

I will sort by colour.
I will sort by size.
I will sort by shape/kind.

Materials: Smart board Sorting sheets Tape line (Sort it Out by Barbara Mariconda)	Websites: n/a
---	-------------------------

Activity: Whole Group Mini-Lesson

- Afternoon Message
- (Activate Prior Knowledge) Where do we see things sorted?
 - Classroom toys, items we use to write draw, loose parts
 - Grocery stores have fruits and vegetables sorted by kind
- (Connect to real life) Talk about why sorting is important
 - Easier to find things!
 - Easier to put things away
- (Connect to prior school knowledge) Talk about how we've previously sorted before, today we are going to sort things by kind
- Using premade sheets of paper, the students will sort themselves by questions that I ask. Each sheet of paper will have four coloured squares and an image inside.
 - **To differentiate: the images will also have the words underneath**
- I will be directing the students to find the picture in the coloured squares and ask them to find an attribute related to it, we will then sort by that attribute
 - Fruit/vegetable
 - Hot/Cold
 - Inside/Outside
- The students will physically move from their spot to one side of the carpet or the other (divided by a tape line)
- Once they are in their sorted groups, I will ask what the image was and how do they how it was the right area to be in
- I will then ask the students to sit while I explain the centres open today

IF THERE IS EXTRA TIME:

- Read Sort it Out by Barbara Mariconda

Assessment:

This is the final lesson before an assessment of learning. Today, the students will be assessed using observation and recorded using anecdotal notes.

Teacher Reflection:

Students mastered sorting by kind. Next step, sorting small attributes. Refer to the learning goal and success criteria explicitly.

Centres

Math

- Vehicles – land, air, water
 - Using cookie sheets, students will be sorting rubber vehicles by if they drive on land, fly, or go in water.
 - They will know they are successful when they can articulate what they are sorting by
- Bears – colour, and size
 - Using paper plates, students will be sorting bears by colour AND size at the same time (i.e. big red bears, small green bears) on each plate
 - They will know they are successful when they can articulate what they are sorting by
 - **To differentiate: some students may only be able to sort by one item or the other, the teacher will make that modification without plates**

Literacy

- Sorting sight words
 - Students will be taking sight words and sorting them by different attributes:
 - First letter
 - Last letter
 - First letter sound
 - Number of letters
 - Number of syllables
 - A game can also be played with the teacher where the teacher sorts the words by a sorting rule, the students have to figure out how the teacher has sorted the words
 - They will know they are successful when they can articulate what they are sorting by
 - **To differentiate: some students may be able to choose their own sorting rule and think of words that fit this rule. Further differentiation includes students writing the words for themselves, teacher giving tracing help, or teacher writing the words for them**

Science/STEM

- “How many leaves can you balance on your tree”
 - Using paper towel rolls, popsicle sticks (wide and narrow), and leaf decorations, the students will make branches with the popsicle sticks and balance the leaves on the ends
 - Some guiding questions include:
 - How can we make the branches stronger?
 - Does it matter where you place the leaves on the branches?
 - Do the shapes of the leaves make a difference?
 - How about the shapes of the popsicle sticks?

Art

- Students will be using oil pastels to make fall pictures
 - The students can refer to books that are out for inspiration
- Using ‘Chaterpix Kids’ students will narrate their picture
 - This allows students to work through their thinking without interrupting a teacher working with other students

Technology

- Tech Table: iPads → Chatterpix Kids
 - Combined with the art table, students will be using ‘Chatterpix Kids’ to narrate the images they create
- Smartboard: Vortex Sorting
 - Students will use a smartboard application to sort images by kind that are presented to them
- Computers: Sorting Websites
 - Fuzz Bugs – ABC YA
 - This and That Sort it – TVO Kids

MATERIALS NEEDED:

- Math
 - 3 cookie sheets
 - 3 stands
 - Blue/green paper
 - Cotton balls
 - Vehicles
 - Paper plates with writing
 - Bears
- Language
 - Sight word cards
- Science/STEM
 - 6 Paper towel rolls in half
 - Wide/thin popsicle sticks
 - Leaf gems
 - 6 Cork boards
- Tech:
 - iPads
 - computers with loaded websites
- Art
 - Paper
 - Oil Pastels
 - Fall books