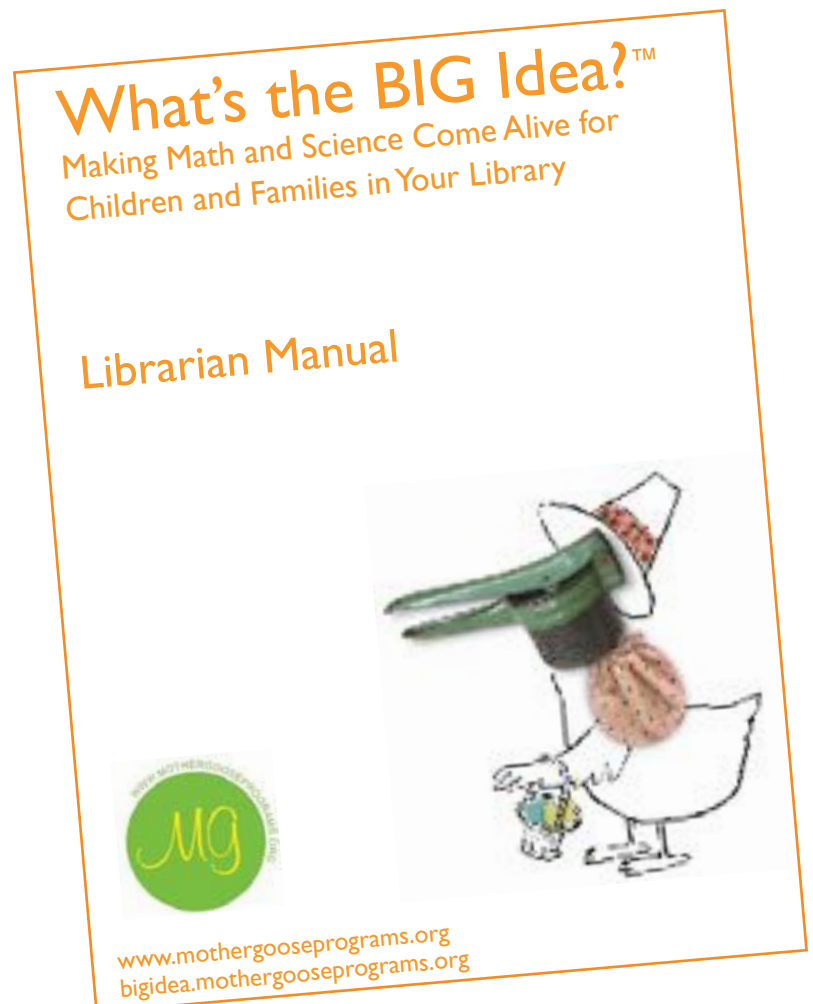


What's the BIG Idea?™

- **Get children excited about math and science**
- **Contribute to children's school readiness**
- **Use hands-on activities to make books come alive**
- **Increase the number of children attending your programs**
- **Meet national and local education standards**
- **Help children make sense of the world around them**
- **Have fun!**



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Sorting and Mathematics

Two very important mathematical processes are problem solving and reasoning; both require logical thinking. Logical thinking involves moving from one step to the next in a way that makes sense.

Being able to notice similarities and differences helps children to begin logical thinking, reasoning, and problem solving.

Sorting and Science

“Science is a way of trying to discover the nature of things” (Karen Lind, *Exploring Science in Early Childhood Education*).

These discoveries, however, are rarely accidental or lucky. They are usually the result of a well-thought-out, organized, step-by-step series of experiments. For young scientists, an important way to discover the “nature of things” is to notice the ways in which things are the same and different.

Process Skills of Science

Science as Inquiry Standard

Asking Scientific Questions

Collecting and Using Data

Communicating Information and Ideas

Designing and Making Models

Estimating and Predicting

Experimenting

Finding Patterns

Measuring

Noticing Change Over Time

Observing

Recognizing Relationships

Sorting and Classifying

Using Simple Tools of Science



Process Standards of Mathematics

Problem Solving

Communicating

Making Connections

Representing

Content Standards of Mathematics

Geometry and Spatial Sense

Sorting, matching, naming and describing shapes: circles, squares, rectangles and triangles

Measurement

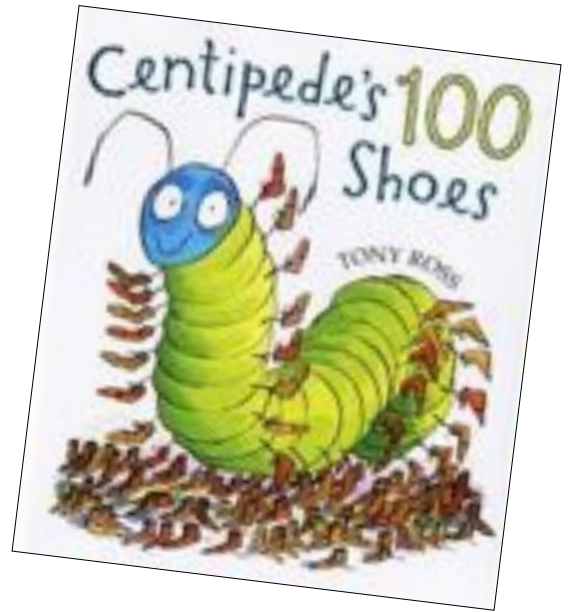
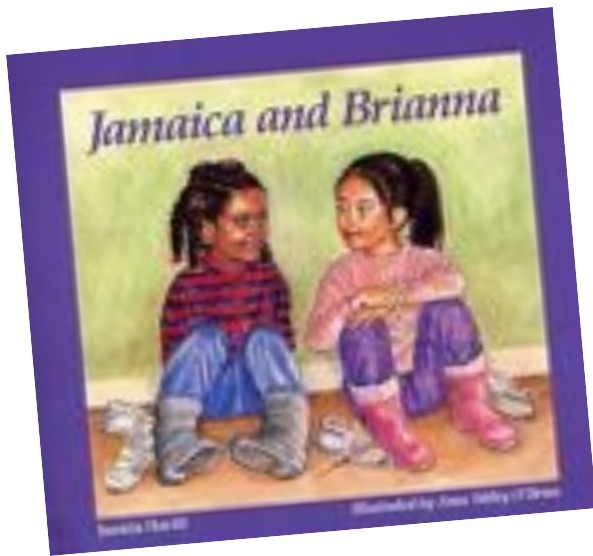
Understanding and using comparative words: more than, less than, bigger than, smaller than, shorter than, longer than, heavier than, colder than

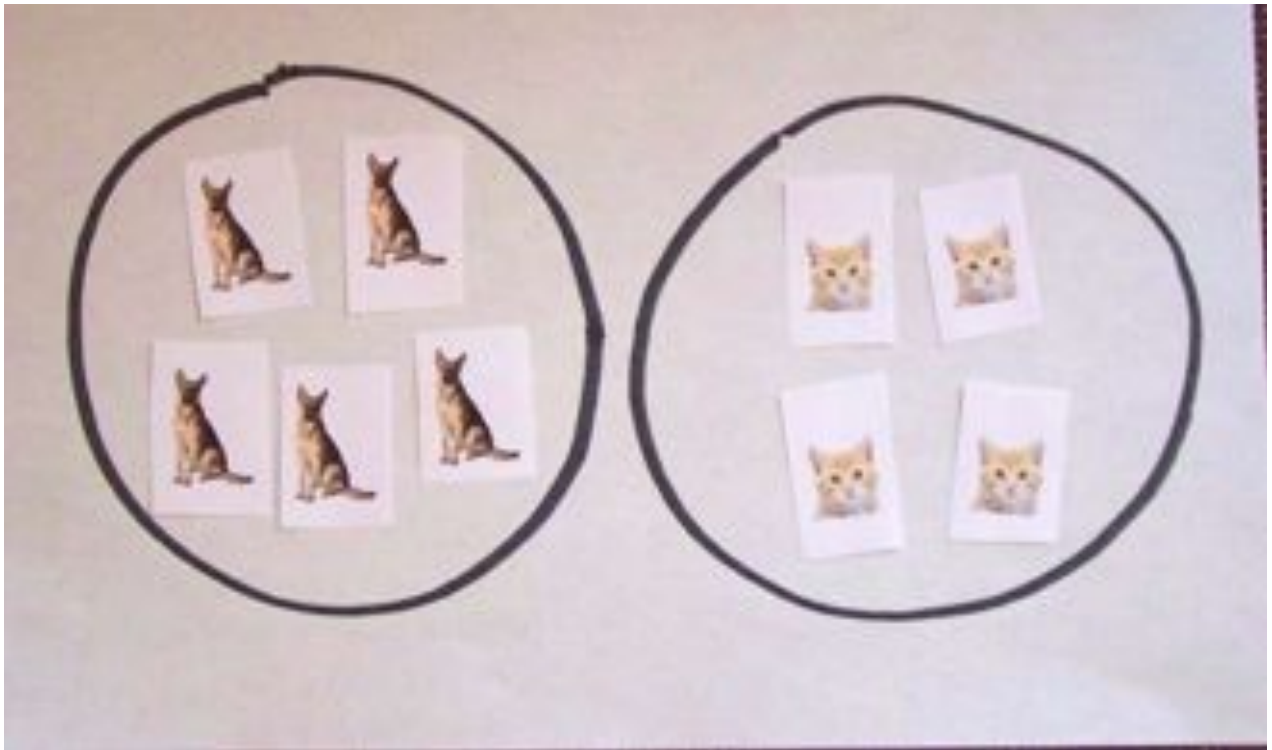
Data Analysis, Statistics and Probability

Sorting objects to answer questions



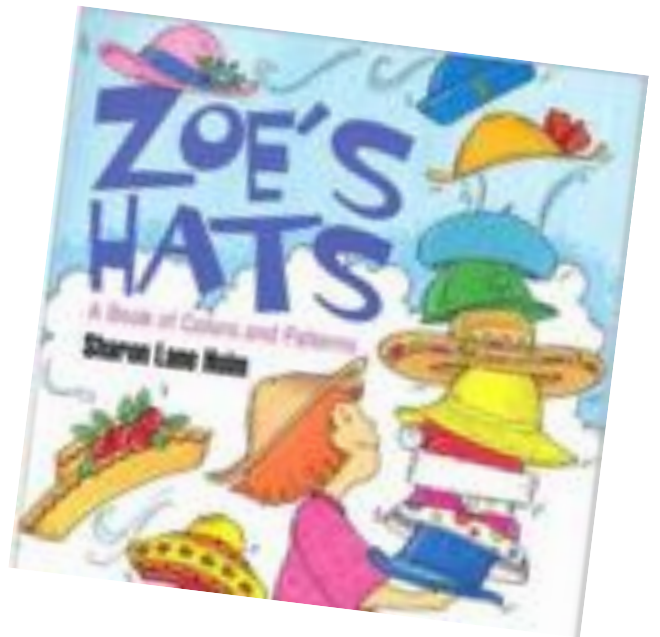
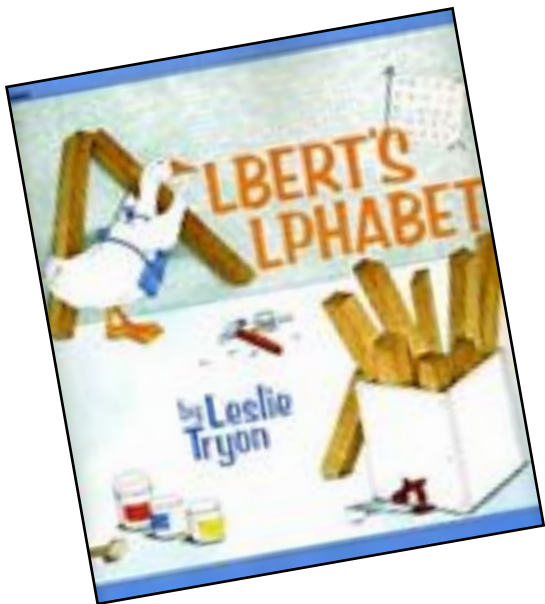
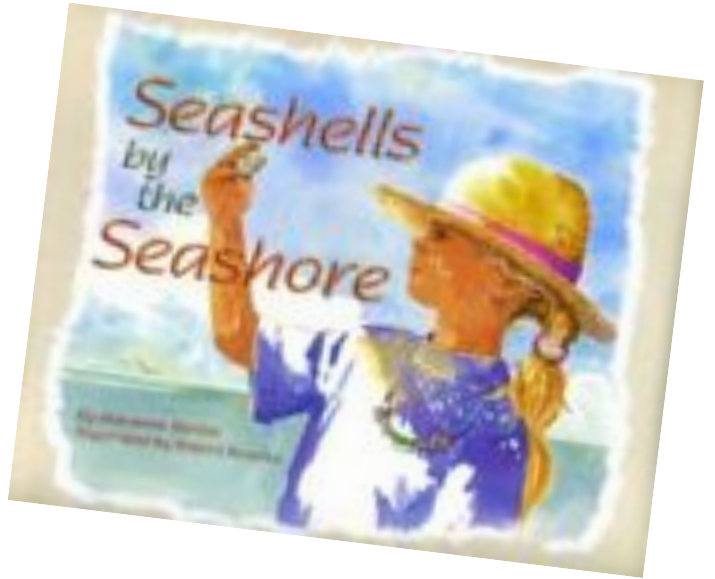
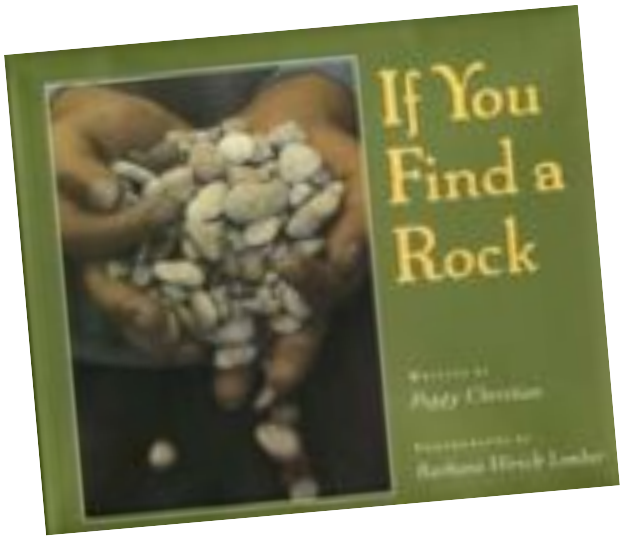
Bein' with You This Way
by W. Nikola-Lisa

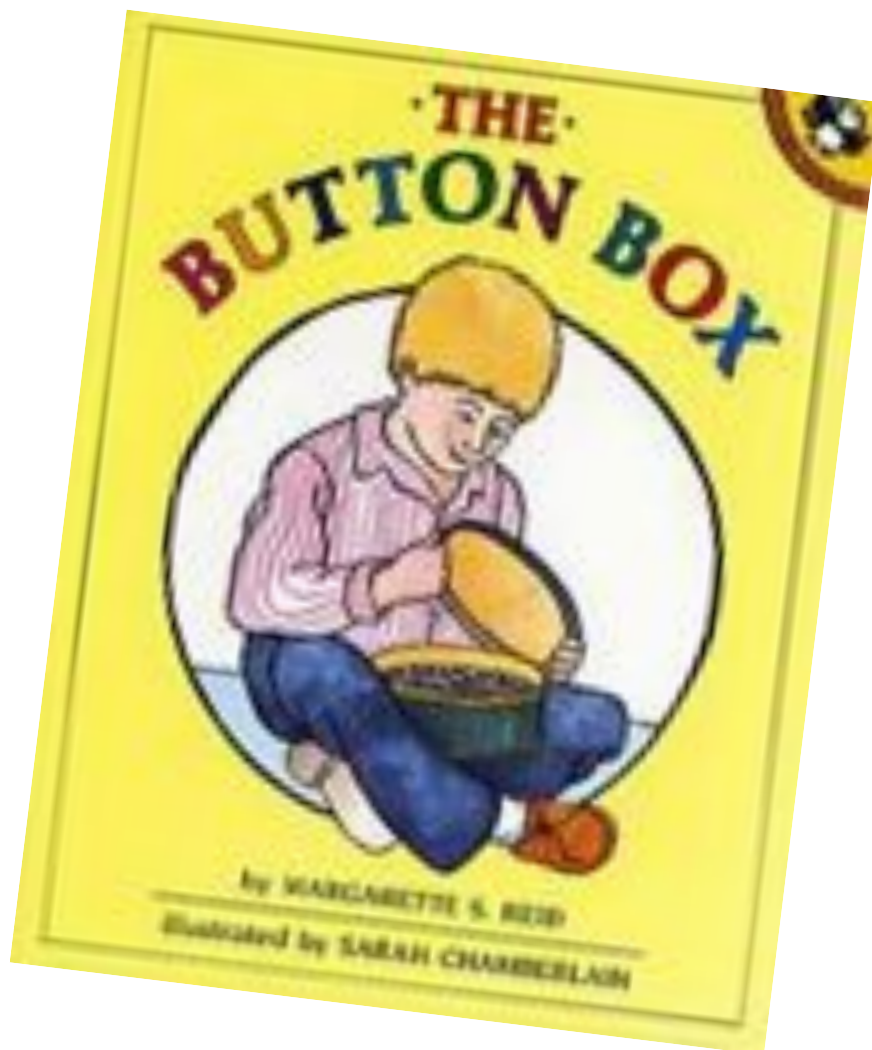






Hannah's Collections
by Marthe Jocelyn





The Button Box
by Margarett S. Reid





Discovery Center

Our Own Sorting Collection

Make a sign asking families to contribute to your SORTING COLLECTION.

Post a list of suggested items (add other objects you'd like):

Small toy animals, cars, blocks, etc

Bottle caps

Shiny objects

Objects with two colors

Objects with writing or numbers on them

Objects we can't use:

Sharp

Dirty

Glass

Larger than 4" by 4"

Things you want returned to you

Once you have all the objects, mix them up in a box or basket and include some sorting loops.

Include instructions about how to sort with definitions of **attribute** and **Venn diagram**.







Five Creatures
by Emily Jenkins

Why is Sorting so important to math and science learning?

As children sort and classify they are practicing important math and science skills, concepts and language.

They:

- Identify attributes of objects—size, shape, color, texture, weight, etc.
- Organize materials to solve a problem.
- Recognize relationships by comparing objects—larger than, smaller than, less than, etc.
- Use classification skills to group similar objects together.
- Use and understand science and math vocabulary.
- Increase their understanding of the world around them.

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