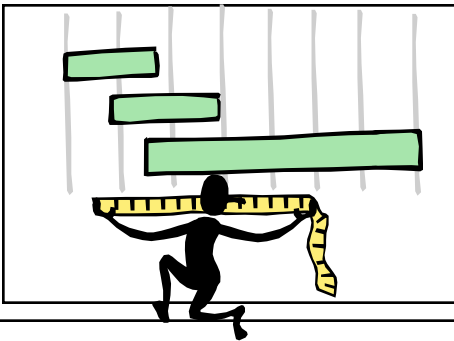


Best Bug Parade

Measurement

Includes:

- Mass
- Volume
- Length
- Perimeter
- Area
- Temperature
- Telling Time
- Estimation



By three years many children:

- Recognize and label objects using words that measure

By six years many children:

- Describe objects with either nonstandard or standard measuring tools. (For example, “This object is 2 shoes or 1 ruler long.”)

You can help children to:

- Learn the vocabulary they need for measurement. Encourage them to use these words such as heavy/light, big/small, hot/cold, near/far etc. so they can compare and sort objects in their everyday world

The Best Bug Parade introduces words children need to describe size and length. This book also shows that words of measurement only make sense when they are compared to other things.



Storytime activities to use with *Best Bug Parade*:

- Before you read the story, ask children about words they know that describe size, such as big and little. Ask them to listen for these words or others they hear in the story about bugs.
- After you read the story, ask children what “size” words they heard. Give children something they can safely stretch, such as a mitten or sock. Ask them to stretch or scrunch up the object to match the meaning of long, longer, longest, short, shorter, shortest.
- Tell children to pretend they are bugs in this story. Have them stretch big or crouch small to match the different sizes of bugs they hear described.
- Fill a cloth bag with similar objects of various sizes (for example, plastic bugs, dinosaurs, crayons). Have children pull out the objects one at a time and describe and compare their sizes, lengths, thicknesses or weights.

More math suggestions for *Best Bug Parade* are on pages 32-33.

At Home

Bugs *(Adapted by JoAnne Deal Hicks to be sung to tune Frère Jacques)*

Big bugs, small bugs, big bugs, small bugs;
See them crawl. See them crawl.
Creepy, creepy crawling.
Never, never falling.
Bugs, bugs, bugs. Bugs, bugs, bugs.



Thin bugs, fat bugs. Thin bugs, fat bugs;
See them crawl. See them crawl.
Creepy, creepy crawling.
Never, never falling.



Playing with measurement:



Using cardboard, help your children trace and cut out their handprint. They have just created a ruler!

Ask your children to use this hand ruler to find another hand that is bigger, smaller, and the same size as their hand.

Ask them to use the hand ruler to count how many hands their pet or stuffed animal is high or long.

Can your children find shoes that are bigger, smaller and the same size as their feet?



Early math:

1. Is important to the development of logical thinking
2. Helps children to predict based on their observations

Five areas of mathematical concepts are called **strands** by the Ontario Ministry of Education.

1. Numbers and numeracy
2. Spatial awareness and geometry
3. Measurement
4. Patterning and algebra
5. Data management and probability



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- Early Literacy Specialists



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At Childcare

For Toddlers

- With two plush teddy bears of very different sizes, ask toddlers to find the bear that is big. Emphasize big by walking like a big bear and using a big voice. Do the same with the small bear. Give each toddler a big or small bear to hold while you sing “Teddy Bear Teddy Bear Turn Around” acting out the rhyme with a big or little voice, big or little movements.

For Preschoolers

- Fill three drinking glasses to the same level with water. Explain that each glass now holds the same amount of water. Ask children to pour some of the water (not all) from the first glass into the second and third glasses. Ask them to tell you which glass has *some* water, *more* water and the *most* water in it. Arrange the glasses in order of fullness. Use a spoon to gently tap the sides of the glasses. Do they sound the same?
- Try the experiment again. Pour water from the fullest glass into the other glasses. Rearrange the glasses again in order of fullness, and tap each glass with a spoon. Is the musical sound the same?



Great books that feature measurement:

Big Sarah's Little Boots, Paulette Bourgeois (measuring size)

Blue Sea, Robert Kalan (measuring size)

The Mitten, Jan Brett (measuring size)

The Waterhole, Graeme Base (measuring size and volume)

10 Minutes till Bedtime, Peggy Rathmann (measuring time)

50 Below Zero, Robert Munsch (measuring temperature)

Websites that are helpful:

<http://www.atozkidsstuff.com/math.html>

<http://www.kindergarten-lessons.com/teaching-measurement.html>



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