What’s the Big Idea?: Introducing Math and Science to Young Patrons

Presented at PNLA 2010 by Beth Rosania and Jenny Grenfell

**Picture Books that Work!**

More Than Counting **–** these books work with the concepts involving numbers and relationships between numbers and things.

Anno, Mitsumasa *Anno’s Counting Book*

Baker, Keith *Quack and Count*

Bang, Molly *Ten, Nine, Eight*

Brisson, Pat *Benny’s Pennies*

Crews, Donald *Ten Black Dots*

Emberley, Rebecca *My Numbers/Mis Numeros*

Falwell, Cathryn *Feast for 10*

Hines, Anna Grossnickle *1, 2 Buckle My Shoe*

Hutchins, Pat *Ten Red Apples*

Keats, Ezra Jack *Over in the Meadow*

Martin Jr., Bill *Chicka Chicka 1-2-3*

McMillan, Bruce *Eating Fractions*

Moss, Lloyd *Zin! Zin! A Violin*

Pinczes, Elinor *One Hundred Hungry Ants*

Root, Phyllis *One Duck Stuck*

Wells, Rosemary *Bunny Money*

Measurement **–** these books work with the concept of measurement.

Adler, David *How Tall, How Short, How Faraway*

Jenkins, Steve *Actual Size*

![C:\Users\nmyouth\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\5YK1J8FB\MC900040157[1].wmf]()Lionni, Leo *Inch by Inch*

Miller, Margaret *Big and Little*

Minters, Frances *Too Big, Too Small, Just Right*

Myller, Rolf *How Big is a Foot?*

Tompert, Ann *Just a Little Bit*

Patterns and Relationships **–** these books work with patterns and finding relationships between things.

Anno, Mitsumasa *Anno’s Counting Book*

Harris, Trudy *Pattern Bugs / Pattern Fish*

Hutchins, Pat *The Doorbell Rang*

Jocelyn, Marthe *Hannah’s Collections*

Martin, Bill Jr. *Listen to the Rain*

Pinkney, Brian *Max Found Two Sticks*

Pinkney, Jerry *Little Red Hen*

Rathman, Peggy *10 Minutes till Bedtime*

Ross, Tony *Centipede’s 100 Shoes*

Stockland, Patricia M. *Stripes, Spots or Diamonds*

Swinburne, Stephen *Lots and Lots of Zebra Stripes*

Walsh, Ellen Stoll *Hop Jump*

Change over Time: Growth and Weather **–** these books work with the concept of change over time, particularly relating to growth and weather.

Asch, Frank *Moonbear’s Shadow*

Cooney, Barbara *Miss Rumphius*

![C:\Users\nmyouth\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\5YK1J8FB\MC900232157[1].wmf]()DeWitt, Lynda *What Will the Weather Be?*

Doyle, Malachy *Jody’s Beans*

Hesse, Karen *Come On, Rain!*

Hoban, Tana *Shadows and Reflections*

Hutchins, Pat *The Wind Blew*

Locker, Thomas *Cloud Dance*

Miller, Margaret *Now I’m Big*

Rockwell, Anne *Growing Like Me*

Shapes **–** these books work with the concepts relating to shapes.

Crosbie, Michael *Architecture Shapes*

DK Publishing *Shapes All Around*

Emberley, Ed *The Wing on a Flea: A Book About Shapes*

Falwell, Cathryn *Shape Capers*

Gibbons, Gail *The Quilting Bee*

Gravett, Emily *Orange Pear Apple Bear*

Hoban, Tana *Shapes, Shapes, Shapes*

Hopkinson, Deborah *Sweet Clara and the Freedom Quilt*

Maccarone, Grace *Three Pigs, One Wolf, and Seven Magic Shapes*

Rau, Dana Meachen *A Star in My Orange*

Thong, Roseanne *Round is a Mooncake: A Book of Shapes*

Tompert, Ann *Grandfather Tang’s Story*

Walsh, Ellen Stoll *Mouse Shapes*

Maps & Mapping **–** these books work with the concepts relating to maps.

Fanelli, Sara *My Map Book*

![C:\Users\nmyouth\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\MLYWTX14\MC900090155[1].wmf]()Gorbachev, Valerie *The Big Trip*

Hartman, Gail *As the Crow Flies: A First Book of Maps*

Hutchins, Pat *Rosie’s Walk*

Leedy, Loreen *Mapping Penny’s World*

Schertle, Alice *Down the Road*

Sweeney, Joan *Me on the Map*

Building Construction **–** these books work with concepts relating to building.

Crum, Shutta *The House in the Meadow*

Galdone, Paul *The Three Little Pigs*

Gibbons, Gail *How a House is Built*

Hutchins, Pat *Changes, Changes*

Lowell, Susan *The Three Little Javelinas*

Newhouse, Maxwell *The House That Max Built*

Simon, Seymour *Let’s Try It Out With Towers and Bridges*

Tarsky, Sue *The Busy Building Book*

Tryon, Leslie *Albert’s Alphabet*