

## Appendix 1 – Counting Skills

### **The Texas Prekindergarten Math Guidelines and Related Children’s Books**

In this appendix, the numbered bold-print text is taken directly from the Texas Prekindergarten Guidelines: Math Domain. The suggested books target the skill addressed and are listed from simplest to most complex.

Several foundational counting skills may be addressed in the same book (i.e., books may include number-words (i.e. one, two, three, etc.), their numerals (i.e., 1, 2, 3, etc.), as well as items to physically count. Choose books of increasing complexity to continue to review learned skills while introducing new ones.

**1. Child knows that objects, or parts of an object can be counted.**

(Any counting book works here.)

- 1 2 3: A Child’s First Counting Book by Alison Jay (presents both objects and parts of objects to be counted)

**2. Child uses words to rote count from 1-30.**

(\*All of these books are more complex than the other counting books on this list because they count beyond 10.)

- Anno’s Counting Book by Mitsumasa Anno (0 to 12; no words)
- One Big Building: A Counting Book About Construction by Michael Dahl (1 to 12)
- My Little Counting Book by Roger Priddy (1 to 20)
- 20 Big Trucks in the Middle of the Street by Mark Lee (1 to 20)
- The Icky Bug-Counting Book by Jerry Pallotta (0 to 26)
- Monster Math by Anne Miranda (up to 40 and back down)
- Fifty on the Zebra: Counting with the Animals by Nancy Maria Grande Tabor (1 to 20 by 1’s, 30-100 by 10’s, multiple counting opportunities on each page)
- Best Counting Book Ever by Richard Scarry (1 to 20 by 1’s, 30 to 100 by 5’s)

**3. Child counts 1-10 items, with one count per item.** [Most counting books count to ten; look for books that show numerals (i.e., 1, 2, 3), number-words (i.e., one, two, three), and something to count together on page.]

- 1, 2, 3, to the Zoo by Eric Carle (1 to 10 forwards)
- How Many? A Counting Book by D. J. Panec (non-sequential counting to 10)
- On the Launch Pad: A Counting Book About Rockets by Michael Dahl
- Ten Wiggly, Wiggly Caterpillars by Debbie Tarbett (10 to 1 backwards counting)
- Ten, Nine, Eight by Molly Bang (10 to 1 backwards counting)

4. **Child demonstrates that the order of the counting is always the same, regardless of what is counted.** (Choose books that show more than one set of items to be counted for each number.)
  - *Ten Black Dots* by Donald Crews
  - *What Comes in 2's, 3's, and 4's?* by Suzanne Aker
  - *Counting Stars* by Catherine Rayner
  - *The Cheerios Counting Book* by Barbara Barbieri McGrath
  - *Count Off, Squeak Scouts* by Laura Driscoll (unscrambles numbers 1-5)
  - *Best Counting Book Ever* by Richard Scarry
5. **Child counts up to 10 items and demonstrates that the last count indicates how many items were counted.**

(This understanding can be scaffolded with any counting book by presenting the number first, then counting items on page, then referring back to the number.)

  - *Let's Say Our Numbers* by Roger Priddy (1 to 10; focus on written numerals)
6. **Child demonstrates understanding that when counting, the items can be chosen in any order.** (Use any counting book that does not put items for counting in a straight line, then count items in different ways.)
  - *Butterfly Colors and Counting* by Jerry Pallotta
  - *How Many Snails* by Paul Giganti, Jr. (this book adds complexity by giving discriminating characteristics that reduce the number counted)
  - *Count to 100* by Felicity Brooks
7. **Child uses the verbal ordinal terms.** (For example: first, second, third, etc.)
  - *First the Egg* by Laura Vaccaro Seeger (first, then)
  - *Freda Plans a Picnic* by Stuart J. Murphy (sequencing: first, start, next, last)
  - *Henry the Fourth* by Stuart J. Murphy (first to fourth)
  - *Five Little Pumpkins* by Tiger Tales (first to fifth)
  - *Seven Little Bunnies* by Julie Stiegemeier (first to seventh)
  - *Albert, the Muffin-Maker* by Eleanor May (first to twelfth)
8. **Child verbally identifies, without counting, the number of objects from 1 to 5.**
  - *The Very Hungry Caterpillar* by Eric Carle
  - *Just Enough Carrots* by Stuart J. Murphy (comparing small groups)
  - *The Cheerios Counting Book* by Barbara Barbieri McGrath
  - *Best Counting Book Ever* by Richard Scarry (various groupings of 1-5)
  - *Lots of Ladybugs: Counting by Fives* by Michael Dahl (groups of 5)
9. **Child recognizes one-digit numerals, 0-9.** (Many counting books show numerals with the objects to count, be sure to point out this connection.)
  - *Numbers* by Henry Arthur Pluckrose
  - *I Spy Numbers* by Jean Marzollo

## Appendix 2 – Adding To/Taking Away Skills

### **The Texas Prekindergarten Math Guidelines and Related Children’s Books**

In this appendix, the numbered bold-print text is taken directly from the Texas Prekindergarten Guidelines: Math Domain. The suggested books target the skill addressed and are listed from simplest to most complex.

**1. Child uses concrete objects, creates pictorial models, and shares a verbal word problem for adding up to 5 objects.**

- *Just One More* by Jennifer Hansen Rolli (introduces idea of one more)
- *Fish Eyes: A Book You Can Count On* by Lois Ehlert (adds 1 more)
- *Rooster’s Off to See the World* by Eric Carle (adds/subtracts in groups of 1 -5)
- *Mouse Count* by Ellen Stoll Walsh (begins with 3, adds 3, then 4 more)
- *Quack and Count* by Keith Baker (several ways to total 7)
- *Twelve Ways to Get to 11* by Eve Merriam (twelve ways to total 11)
- *What’s New at the Zoo: An Animal Counting Adventure* by Suzanne Slade (sums of up to 20)
- *Albert Adds Up* by Eleanor May (adds up to 11 and subtracts down to 0)
- *Domino Addition* by Lynette Long (sums of 0 to 12)
- *Teddy Bear Addition* by Barbara Barbieri McGrath (sums of up to 50)

**2. Child uses concrete models or makes a verbal word problem for subtracting 0-5 objects from a set.**

- *Pete the Cat and His Four Groovy Buttons* by Eric Litwin and James Dean (four buttons pop off one by one)
- *Benny’s Pennies* by Pat Brisson (Benny spends 5 pennies)
- *Monster Musical Chairs* by Stuart J. Murphy (from 6 down to 1 monster)
- *Ten Flashing Fireflies* by Philemon Sturges (children capture fireflies 1 at a time from a group of 10)
- *One Big Pair of Underwear* by Laura Gehl (groups of up to 9 animals all have 1 less item than needed for everyone, so there is always one left out)
- *Elevator Magic* by Stuart J. Murphy (starts at 10<sup>th</sup> floor, goes down 2 floors, then 3, then 1, then 3 to get to the 1<sup>st</sup> floor)
- *Albert Adds Up* by Eleanor May (adds up to 11 and subtracts down to 0)
- *Teddy Bear Subtraction* by Barbara Barbieri McGrath

**3. Child uses informal strategies to separate up to 10 items into equal groups.**

- *The Doorbell Rang* by Pat Hutchins (12 items)
- *A Remainder of One* by Elinor J. Pinczes (25 items)
- *One Hundred Hungry Ants* by Elinor J. Pinczes (100 items)

## Appendix 3 – Geometry and Spatial Sense Skills

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In this appendix, the numbered bold-print text is taken directly from the Texas Prekindergarten Guidelines: Math Domain. The suggested books target the skill addressed and are listed from simplest to most complex.

**1. Child names common shapes.**

- Shapes by John J. Reiss
- Shape by Shape by Suse MacDonald
- Color Zoo by Lois Ehlert
- Shapes, Shapes, Shapes by Tana Hoban
- I Spy Shapes in Art by Lucy Micklethwait
- Around Home: Shapes by James D. Anderson

**2. Child creates shapes.**

- When a Line Bends, a Shape Begins by Rhoda Gowler Greene
- The Greedy Triangle by Marilyn Burns

**3. Child demonstrates use of location words (such as “over,” “under,” “above,” “next to,” “between,” “in front of,” “near,” “far,” etc.).**

- Up, Down, and Around by Kathy Ares
- Bears on Chairs by Shirley Parenteau
- Over, Under, and Through by Tana Hoban
- Inside, Outside, Upside Down by Stan and Jan Berenstain
- Rosie’s Walk by Pat Hutchins
- Piggies in the Pumpkin Patch by Mary Peterson
- The Color Box by Dayle Ann Dodds
- Albert is NOT Scared by Eleanor May
- Albert’s Amazing Snail by Eleanor May
- The Roll-Away Pumpkin by Junia Wonders (forward, ahead)

**4. Child slides, flips, and turns to demonstrate that the shapes remain the same.**

- Mouse Shapes by Ellen Stoll Walsh
- Grampa’s Quilt by Betsy Franco (children rearrange parts of a quilt to change the overall shape)
- Perfect Square by Michael Hall (a square is broken and used in many ways)
- Jack the Builder by Stuart J. Murphy (adding blocks to make different things)
- Block City: Poem and Activities by Robert Louis Stevenson and Dawn Heston (blocks used to make various structures)

## Appendix 4 – Measurement Skills

### **The Texas Prekindergarten Math Guidelines and Related Children’s Books**

In this appendix, the numbered bold-print text is taken directly from the Texas Prekindergarten Guidelines: Math Domain. The suggested books target the skill addressed and are listed from simplest to most complex.

- 1. Child recognizes and compares heights or lengths of people or objects.**
  - *Is it Larger? Is it Smaller?* by Tina Hoban (wordless)
  - *The Best Bug Parade* by Stuart J. Murphy
  - *You Are (Not) Small* by Anna Kang
  - *Length* by Henry Arthur Pluckrose
  - *Actual Size* by Steve Jenkins
  - *Who Eats First?* by Ae-hae Yoon
- 2. Child recognizes how much can be placed within an object.**
  - *Capacity* by Henry Arthur Pluckrose
  - *The Mitten* by Jan Brett
  - *A House for Birdie* by Stuart J. Murphy
  - *A Beach for Albert* by Eleanor May
- 3. Child informally recognizes and compares weights of objects or people.**
  - *Weight* by Henry Arthur Pluckrose
  - *Mighty Maddie* by Stuart J. Murphy
  - *Who Eats First?* by Ae-hae Yoon
- 4. Child uses language to describe concepts associated with the passage of time.**
  - *The Grouchy Ladybug* by Eric Carle
  - *Time* by Stephanie Reid (wordless)
  - *It’s About Time* by Stuart J. Murphy

## **Appendix 5 – Classification and Pattern Skills**

### **The Texas Prekindergarten Math Guidelines and Related Children’s Books**

In this appendix, the numbered bold-print text is taken directly from the Texas Prekindergarten Guidelines: Math Domain. The suggested books target the skill addressed and are listed from simplest to most complex.

#### **Classification and Pattern Skills**

- 1. Child sorts objects that are the same and different into groups and uses language to describe how the groups are similar and different.**
  - *A Pair of Socks* by Stuart J. Murphy
  - *Sorting* by Henry Arthur Pluckrose
  - *Three Little Firefighters* by Stuart J. Murphy
  - *Which Round, Which is Bigger* by Mineko Mamada
  - *Sort It Out* by Barbara Mariconda
  - *The Crayola Sorting Book* by Jodie Shepherd
  - *A Mousey Mess* by Laura Driscoll
  - *The Button Box* by Margarett S. Reid