

Numbers Plus Information

Numbers Plus is a set of 120 developmentally based activities addressing the math content areas: Number Sense and Operation, Geometry, Measurement, Algebra and Data Analysis.

- Each activity is sequenced so that children of different developmental and ability levels can participate together
- Each card identifies
 - The content area
 - A list of materials needed
 - The opening statement
 - Ideas for what to do during the middle of the activity
 - Ideas for bringing the lesson to a close
 - On the back of the card is a description of the developmental range of what children might say and do during these stages, ideas how adults can scaffold, and ideas for follow-up to extend the lesson into all learning areas of the classroom
- Please be sure to read pages 2 – 10 in the Teacher’s Manual
- Included in the Numbers Plus boxed set, is the parent booklet, “Helping Your Young Child Learn About Mathematics.” These can be ordered separately each year for your group of children.

Numbers Plus Activity Grid

The 120 Numbers Plus activities each address one primary content area and one or more topics within that area. These are listed at the beginning of the activity. Topics from other content areas (if any) are also listed. At the end of each activity, other activities that address the same or related topics are listed. While a few activities build on prior ones, most can be done in any order. (See Chapter 3, "Activity Plan," for a description and sample activity.) The following grid summarizes this information; that is, it lists the primary area and topic(s), and any other content area(s) and topic(s) covered in each of the Numbers Plus activities. Use the grid to help you plan activities that provide children with math experiences that address *different* areas and topics, as well as those that follow up and extend children's explorations in the *same* or related subjects. Children need both.

Numbers Plus Activity Grid

(by Content Areas and Topics)

| NUMBER SENSE & OPERATIONS | | | | | | |
|------------------------------|------------------------|----------|---------------------------------|-------------------------|------------------------|------------------------------|
| Title of Activity | Number Words & Symbols | Counting | Comparing & Ordering (Quantity) | Composing & Decomposing | Addition & Subtraction | Other Content Areas & Topics |
| 1. Bears on a Boat | | X | | | X | |
| 4. Bowling and Beanbags | | X | X | | X | |
| 6. Button Drop | X | X | X | X | | Data Analysis: Representing |
| 8. Cake Cutting | | X | X | X | | |
| 10. Counting Shapes on Pizza | | X | X | | | Geometry: Shape |
| 12. Dinosaur Hunt | X | X | X | | | |
| 14. Dot Cards and Numerals | X | X | | | | |

| NUMBER SENSE & OPERATIONS (CONT.) | | | | | | |
|---|------------------------|----------|---------------------------------|-------------------------|------------------------|------------------------------|
| Title of Activity | Number Words & Symbols | Counting | Comparing & Ordering (Quantity) | Composing & Decomposing | Addition & Subtraction | Other Content Areas & Topics |
| 16. Going Shopping | X | X | X | | | |
| 17. Memory Matching Deck | | | | | | |
| 18. How Many Pennies? | | X | | | | Data Analysis: Representing |
| 19. How Many Steps Will It Take? | | | | | | |
| 20. Keeping Score | X | X | | | | Data Analysis: Representing |
| 21. Magic Trick: Changing Arrangements | | | | | | |
| 22. Magic Trick: More or Less | X | X | | | X | |
| 23. Number Fish: Place the Fish in the Pond | | | | | | |
| 24. Number Fish: Line Them Up | X | X | X | | | |
| 25. Number Fish: Sort and Classify | X | X | | | | |
| 26. Numeral Hopscotch | X | | | | | Data Analysis: Representing |
| 27. Numeral Fun | X | | | | | |
| 28. Numerals in Newspapers | X | | | | | |
| 29. Numeral Song | X | | | | | |
| 30. Roll of the Dice | | X | X | | X | |
| 31. Shopping List | X | | | | | |
| 32. Spinning for Dollars | | X | | | X | |
| 33. Swimming Bears | X | | | | X | |
| 34. Ten in the Bed | X | X | | X | X | |
| 35. Ten Little Piggies | X | X | | | | |
| 36. Too Many or Too Few Bears | X | X | X | X | X | |

| GEOMETRY | | | | |
|-----------------------------------|-------|----------------|-------------------|---|
| Title of Activity | Shape | Transformation | Spatial Reasoning | Other Content Areas & Topics |
| 2. Comparing Shapes | X | X | | |
| 4. Feeling Shapes: What Are They? | X | | | |
| 6. Flip-and-Turn Worms | | X | X | |
| 8. I Spy Shapes | X | | | |
| 10. Making Shapes | X | | | |
| 12. Musical Shapes | X | | X | |
| 14. Pattern Block Critters | X | X | X | |
| 16. Shape Hopscotch | X | | | Data Analysis: Representing |
| 18. Shape Museums | X | X | | |
| 20. Shape Pictures | X | X | X | |
| 22. Shape Stories | X | X | X | |
| 24. Treasure Hunt | | | X | Number: Comparing & Ordering (Quantity) |

| GEOMETRY (CONT.) | | | | |
|-----------------------|-------|----------------|-------------------|--|
| Title of Activity | Shape | Transformation | Spatial Reasoning | Other Content Areas & Topics |
| 25. Turn Like a Clock | | | | |
| 26. Where Does It Go? | | | X | Data Analysis: Representing, Interpreting & Applying |
| 27. Wrapping Presents | | | | |

| MEASUREMENT | | | | |
|--------------------------------|-------------------|------|-----------------------------------|---|
| Title of Activity | Measurement Terms | Unit | Comparing & Ordering (Attributes) | Other Content Areas & Topics |
| 1. Building Zone: Measuring | X | | | Number: Numbers, Words & Symbols Data Analysis: Representing |
| 2. Clifford's House: Building | X | | X | |
| 3. Clifford's House: Measuring | | | | |
| 4. Color Recipes | X | | | Number: Numbers, Words & Symbols Data Analysis: Representing |
| 5. Construction Zone: Height | X | X | X | |
| 6. Construction Zone: Width | X | X | X | |
| 7. Cuisenaire Stairs | X | | X | |
| 8. Fill It Up | X | X | X | |
| 9. How Far Can I Jump? | | X | X | Data Analysis: Organizing & Comparing, Representing |
| 10. How Long Is a Minute? | X | | | Number: Numbers, Words & Symbols Data Analysis: Describing |
| 11. How Many Spoons? | X | X | X | |
| 12. How Many Squirts? | | X | X | |
| 13. How Tall Am I? | | X | X | Data Analysis: Organizing & Comparing, Representing |
| 14. How Tall Is My Teacher? | | X | X | Data Analysis: Organizing & Comparing, Representing |
| 15. Human Rulers | X | X | X | |
| 16. Less Than One Unit | X | X | X | |

| MEASUREMENT (CONT.) | | | | |
|-----------------------------|-------------------|------|-----------------------------------|---------------------------------------|
| Title of Activity | Measurement Terms | Unit | Comparing & Ordering (Attributes) | Other Content Areas & Topics |
| 17. Making Colors | X | | | Art, Language, Reading |
| 18. More Than One Unit | X | X | X | |
| 19. Size of Objects | X | | | Language, Counting |
| 20. Straw Poll | X | X | X | |
| 21. Tablecloth | X | | | |
| 22. Toy Soup | X | X | X | Data Analysis: Organizing & Comparing |
| 23. Turkey Basket | X | | | |
| 24. What Time of Day Is It? | X | | X | |
| 25. Which Weighs More? | | | | |

| ALGEBRA | | | |
|---------------------------|----------------------|----------------------------------|---|
| Title of Activity | Alternating Patterns | Increasing & Decreasing Patterns | Other Content Areas & Topics |
| 1. Animal Parade | X | | Number: Number Words & Symbols |
| 2. Animal Paths | X | | |
| 3. Borders and Frames | X | | Geometry: Spatial Reasoning |
| 4. Family Drawings | | X | Number: Number Words & Symbols Geometry: Spatial Reasoning Data Analysis: Describing, Organizing & Comparing |
| 5. Fence Weaving | X | | Geometry: Spatial Reasoning |
| 6. Fruit Stand | X | | |
| 7. I Spy Patterns | X | | |
| 8. Jump, Clap | X | | |
| 9. Line Them Up | X | X | |
| 10. Movement Patterns | X | | |
| 11. Musical Patterns | X | | |
| 12. Paint Chips | | X | Number: Counting |
| 13. Rhythm Stick Patterns | X | | |
| 14. Shades of Paint | | X | Measurement: Measurement Terms Data Analysis: Organizing & Comparing |
| 15. Shape Caterpillars | X | | Geometry: Shape |
| 16. Toothpicks and Beads | X | | Number: Counting |

| DATA ANALYSIS | | | | | |
|----------------------------|------------|------------------------|--------------|-------------------------|---|
| Title of Activity | Describing | Organizing & Comparing | Representing | Interpreting & Applying | Other Content Areas & Topics |
| 1. Bear Family | X | | | | |
| 2. Chocolate Milk | | X | X | X | Measurement: Unit |
| 3. Collage Creations | | | | | |
| 4. Does It Look Like Us? | X | X | X | X | |
| 5. Fascinating Fasteners | | X | X | | |
| 6. Favorite Colors | | X | X | X | Number: Comparing & Ordering (Quantity) |
| 7. How Did You Build That? | | X | X | X | |
| 8. How Many Did You See? | | | X | X | Number: Counting |
| 9. Inventory | X | X | | | Number: Counting, Comparing & Ordering (Quantity) |
| 10. Laundry Lessons | X | X | | | Measurement: Measurement Terms |
| 11. Number Run | X | | | | Number: Number Words & Symbols |
| 12. Play Dough Snowmen | X | | X | X | Geometry: Shape |
| 13. Snake Up the Band | X | X | | | Number: Comparing & Ordering (Quantity) |
| 14. Taste Test | | | X | X | |
| 15. Teddy Bears | X | X | X | X | |
| 16. What Are You Wearing? | X | X | X | X | |