

MATH MATERIALS FOR PRESCHOOLERS

MATH MATERIALS FOR PRESCHOOLERS ARE ESSENTIAL TOOLS THAT SUPPORT EARLY CHILDHOOD DEVELOPMENT IN NUMERACY AND FOUNDATIONAL MATH SKILLS. THESE MATERIALS ENCOMPASS A RANGE OF TACTILE, VISUAL, AND INTERACTIVE RESOURCES DESIGNED TO ENGAGE YOUNG LEARNERS AND FOSTER THEIR UNDERSTANDING OF BASIC MATH CONCEPTS. FROM COUNTING AND NUMBER RECOGNITION TO SHAPES AND PATTERNS, EFFECTIVE MATH MATERIALS HELP PRESCHOOLERS BUILD CONFIDENCE AND COMPETENCE IN MATHEMATICS. THIS ARTICLE EXPLORES VARIOUS TYPES OF MATH MATERIALS SUITABLE FOR PRESCHOOL EDUCATION, THEIR BENEFITS, AND PRACTICAL WAYS TO INCORPORATE THEM INTO LEARNING ACTIVITIES. ADDITIONALLY, IT HIGHLIGHTS KEY FEATURES TO CONSIDER WHEN SELECTING MATH RESOURCES FOR YOUNG CHILDREN.

- TYPES OF MATH MATERIALS FOR PRESCHOOLERS
- BENEFITS OF USING MATH MATERIALS IN EARLY LEARNING
- HOW TO CHOOSE THE RIGHT MATH MATERIALS
- INCORPORATING MATH MATERIALS INTO DAILY ACTIVITIES
- POPULAR MATH MATERIALS AND TOOLS FOR PRESCHOOL CLASSROOMS

TYPES OF MATH MATERIALS FOR PRESCHOOLERS

MATH MATERIALS FOR PRESCHOOLERS VARY WIDELY, ENCOMPASSING HANDS-ON RESOURCES THAT MAKE ABSTRACT MATHEMATICAL CONCEPTS CONCRETE AND UNDERSTANDABLE. THESE MATERIALS CATER TO DIFFERENT LEARNING STYLES AND DEVELOPMENTAL STAGES, PLAYING A CRITICAL ROLE IN EARLY MATH EDUCATION.

MANIPULATIVES AND COUNTING TOOLS

MANIPULATIVES ARE PHYSICAL OBJECTS THAT CHILDREN CAN HANDLE TO EXPLORE MATH CONCEPTS. COMMON MANIPULATIVES INCLUDE COUNTING BEARS, BEADS, BLOCKS, AND NUMBER RODS. THESE TOOLS HELP PRESCHOOLERS DEVELOP COUNTING SKILLS, UNDERSTAND QUANTITY, AND LEARN BASIC OPERATIONS SUCH AS ADDITION AND SUBTRACTION.

NUMBER AND SHAPE RECOGNITION MATERIALS

MATERIALS FOCUSED ON NUMBER AND SHAPE RECOGNITION INCLUDE FLASHCARDS, PUZZLES, AND SORTING GAMES. THESE RESOURCES ASSIST CHILDREN IN IDENTIFYING NUMERALS, DISTINGUISHING SHAPES, AND RECOGNIZING PATTERNS, WHICH ARE FOUNDATIONAL SKILLS FOR GEOMETRY AND NUMBER SENSE.

MEASUREMENT AND SORTING RESOURCES

MEASUREMENT TOOLS SUCH AS RULERS, SCALES, AND MEASURING CUPS INTRODUCE PRESCHOOLERS TO CONCEPTS OF SIZE, LENGTH, WEIGHT, AND VOLUME. SORTING MATERIALS ENCOURAGE CLASSIFICATION BASED ON ATTRIBUTES LIKE COLOR, SHAPE, AND SIZE, PROMOTING ANALYTICAL THINKING AND ORGANIZATION SKILLS.

INTERACTIVE AND DIGITAL MATH MATERIALS

INTERACTIVE MATH MATERIALS INCLUDE EDUCATIONAL APPS AND ELECTRONIC GAMES TAILORED TO PRESCHOOLERS. THESE

DIGITAL RESOURCES COMBINE VISUAL STIMULI WITH AUDITORY FEEDBACK, REINFORCING MATH CONCEPTS THROUGH ENGAGING, AGE-APPROPRIATE TECHNOLOGY.

BENEFITS OF USING MATH MATERIALS IN EARLY LEARNING

INCORPORATING MATH MATERIALS INTO PRESCHOOL EDUCATION OFFERS NUMEROUS DEVELOPMENTAL AND EDUCATIONAL ADVANTAGES. THESE RESOURCES SUPPORT COGNITIVE GROWTH AND LAY A STRONG FOUNDATION FOR FUTURE ACADEMIC SUCCESS.

ENHANCES CONCEPTUAL UNDERSTANDING

USING TACTILE AND VISUAL MATERIALS HELPS CHILDREN GRASP ABSTRACT MATH IDEAS BY MAKING THEM TANGIBLE. THIS HANDS-ON APPROACH STRENGTHENS COMPREHENSION AND RETENTION OF CONCEPTS SUCH AS COUNTING, SEQUENCING, AND SPATIAL RELATIONSHIPS.

ENCOURAGES ACTIVE LEARNING AND ENGAGEMENT

MATH MATERIALS STIMULATE CURIOSITY AND MOTIVATE PRESCHOOLERS TO EXPLORE MATHEMATICAL IDEAS ACTIVELY. ENGAGED LEARNERS ARE MORE LIKELY TO DEVELOP POSITIVE ATTITUDES TOWARD MATH AND EXHIBIT INCREASED FOCUS DURING LESSONS.

SUPPORTS FINE MOTOR SKILL DEVELOPMENT

MANIPULATING SMALL OBJECTS LIKE BEADS OR BLOCKS NOT ONLY BUILDS MATH SKILLS BUT ALSO ENHANCES FINE MOTOR COORDINATION. THESE MOTOR SKILLS ARE CRUCIAL FOR WRITING AND OTHER ACADEMIC TASKS.

FOSTERS PROBLEM SOLVING AND CRITICAL THINKING

SORTING, MATCHING, AND PATTERN RECOGNITION ACTIVITIES CULTIVATE LOGICAL REASONING AND PROBLEM-SOLVING ABILITIES. THESE COGNITIVE SKILLS ARE ESSENTIAL FOR MATHEMATICAL THINKING AND OVERALL INTELLECTUAL DEVELOPMENT.

HOW TO CHOOSE THE RIGHT MATH MATERIALS

SELECTING SUITABLE MATH MATERIALS FOR PRESCHOOLERS REQUIRES CONSIDERATION OF SEVERAL FACTORS TO ENSURE THEY EFFECTIVELY SUPPORT LEARNING OBJECTIVES AND DEVELOPMENTAL NEEDS.

AGE APPROPRIATENESS AND DEVELOPMENTAL LEVEL

MATERIALS SHOULD MATCH THE CHILD'S COGNITIVE AND MOTOR SKILLS TO PROVIDE AN OPTIMAL LEARNING CHALLENGE WITHOUT CAUSING FRUSTRATION. AGE-APPROPRIATE RESOURCES ENCOURAGE CONFIDENCE AND GRADUAL SKILL PROGRESSION.

DURABILITY AND SAFETY

SINCE PRESCHOOLERS OFTEN EXPLORE MATERIALS BY TOUCHING AND SOMETIMES MOUTHING OBJECTS, MATH MATERIALS MUST BE DURABLE, NON-TOXIC, AND FREE OF SMALL PARTS THAT POSE CHOKING HAZARDS.

VARIETY AND VERSATILITY

A DIVERSE RANGE OF MATERIALS THAT COVER MULTIPLE MATH DOMAINS—SUCH AS COUNTING, SHAPES, AND MEASUREMENT—SUPPORTS COMPREHENSIVE LEARNING. VERSATILE TOOLS THAT CAN BE USED IN VARIOUS ACTIVITIES INCREASE ENGAGEMENT AND INSTRUCTIONAL FLEXIBILITY.

ALIGNMENT WITH LEARNING GOALS

MATERIALS SHOULD ALIGN WITH EARLY CHILDHOOD EDUCATION STANDARDS AND CURRICULUM GOALS. THIS ENSURES THAT THE RESOURCES CONTRIBUTE MEANINGFULLY TO SKILL DEVELOPMENT AND PREPARE CHILDREN FOR FUTURE ACADEMIC DEMANDS.

INCORPORATING MATH MATERIALS INTO DAILY ACTIVITIES

INTEGRATING MATH MATERIALS INTO EVERYDAY PRESCHOOL ROUTINES HELPS REINFORCE MATHEMATICAL CONCEPTS NATURALLY AND CONSISTENTLY.

STRUCTURED LEARNING SESSIONS

PLANNED ACTIVITIES USING SPECIFIC MATH MATERIALS ALLOW FOCUSED SKILL DEVELOPMENT. FOR EXAMPLE, COUNTING GAMES WITH MANIPULATIVES DURING CIRCLE TIME PROVIDE AN OPPORTUNITY TO PRACTICE NUMBER RECOGNITION AND ONE-TO-ONE CORRESPONDENCE.

FREE PLAY AND EXPLORATION

ENCOURAGING CHILDREN TO EXPLORE MATH MATERIALS INDEPENDENTLY DURING FREE PLAY FOSTERS CREATIVITY AND SELF-DIRECTED LEARNING. OPEN-ENDED MATERIALS LIKE BLOCKS OR SHAPE SORTERS PROMOTE EXPERIMENTATION AND DISCOVERY.

INCORPORATING MATH INTO OTHER SUBJECTS

MATH CONCEPTS CAN BE INTEGRATED INTO LITERACY, ART, AND SCIENCE ACTIVITIES. FOR INSTANCE, USING PATTERN BLOCKS TO CREATE PICTURES COMBINES MATH WITH ARTISTIC EXPRESSION, ENHANCING CROSS-DISCIPLINARY LEARNING.

DAILY LIFE MATH EXPERIENCES

EVERYDAY SITUATIONS SUCH AS SNACK TIME CAN BECOME MATH LEARNING OPPORTUNITIES. COUNTING PIECES OF FRUIT OR MEASURING INGREDIENTS INTRODUCES PRACTICAL APPLICATIONS OF MATH MATERIALS AND CONCEPTS.

POPULAR MATH MATERIALS AND TOOLS FOR PRESCHOOL CLASSROOMS

SEVERAL MATH MATERIALS HAVE PROVEN EFFECTIVE IN PRESCHOOL SETTINGS DUE TO THEIR EDUCATIONAL VALUE AND CHILD-FRIENDLY DESIGN.

- **COUNTING BEARS AND COUNTERS:** SMALL, COLORFUL FIGURES USED FOR COUNTING, SORTING, AND PATTERNING ACTIVITIES.
- **NUMBER PUZZLES:** PUZZLES WITH NUMBERS AND CORRESPONDING QUANTITIES HELP DEVELOP NUMERAL RECOGNITION AND

MATCHING SKILLS.

- **SHAPE SORTERS:** TOYS THAT REQUIRE CHILDREN TO MATCH SHAPES WITH CORRESPONDING HOLES, ENHANCING SHAPE RECOGNITION AND FINE MOTOR SKILLS.
- **PATTERN BLOCKS:** GEOMETRIC SHAPES THAT CHILDREN USE TO CREATE DESIGNS AND LEARN ABOUT SYMMETRY AND SPATIAL RELATIONSHIPS.
- **ABACUS:** A CLASSIC COUNTING FRAME THAT INTRODUCES PLACE VALUE AND ARITHMETIC OPERATIONS.
- **MEASURING CUPS AND SCALES:** TOOLS TO EXPLORE CONCEPTS OF VOLUME AND WEIGHT THROUGH HANDS-ON MEASUREMENT ACTIVITIES.
- **INTERACTIVE MATH APPS:** DIGITAL GAMES AND APPS DESIGNED TO TEACH COUNTING, SHAPES, AND SIMPLE MATH OPERATIONS IN AN ENGAGING FORMAT.

FREQUENTLY ASKED QUESTIONS

WHAT ARE THE BEST MATH MATERIALS FOR PRESCHOOLERS?

THE BEST MATH MATERIALS FOR PRESCHOOLERS INCLUDE COUNTING BEADS, NUMBER PUZZLES, SHAPE SORTERS, BUILDING BLOCKS, AND INTERACTIVE MATH GAMES THAT ENCOURAGE HANDS-ON LEARNING.

HOW CAN MATH MATERIALS HELP PRESCHOOLERS DEVELOP EARLY NUMERACY SKILLS?

MATH MATERIALS HELP PRESCHOOLERS DEVELOP EARLY NUMERACY SKILLS BY PROVIDING TACTILE AND VISUAL EXPERIENCES THAT TEACH COUNTING, NUMBER RECOGNITION, SORTING, PATTERNING, AND BASIC ARITHMETIC CONCEPTS IN A FUN AND ENGAGING WAY.

ARE THERE ANY DIGITAL MATH MATERIALS SUITABLE FOR PRESCHOOLERS?

YES, THERE ARE MANY DIGITAL MATH MATERIALS SUITABLE FOR PRESCHOOLERS, SUCH AS EDUCATIONAL APPS AND INTERACTIVE GAMES THAT FOCUS ON COUNTING, SHAPES, AND SIMPLE MATH CONCEPTS, DESIGNED TO BE AGE-APPROPRIATE AND ENGAGING.

HOW CAN PARENTS CHOOSE AGE-APPROPRIATE MATH MATERIALS FOR PRESCHOOLERS?

PARENTS SHOULD CHOOSE MATH MATERIALS THAT MATCH THEIR CHILD'S DEVELOPMENTAL STAGE, ARE SAFE AND DURABLE, PROMOTE HANDS-ON LEARNING, AND ENCOURAGE CREATIVITY AND PROBLEM-SOLVING WITHOUT OVERWHELMING THE CHILD.

WHAT ROLE DO MANIPULATIVES PLAY IN TEACHING MATH TO PRESCHOOLERS?

MANIPULATIVES LIKE BLOCKS, BEADS, AND COUNTERS PLAY A CRUCIAL ROLE IN TEACHING MATH TO PRESCHOOLERS BY ALLOWING THEM TO PHYSICALLY MANIPULATE OBJECTS, WHICH HELPS THEM UNDERSTAND ABSTRACT CONCEPTS LIKE NUMBERS, ADDITION, AND PATTERNS MORE CONCRETELY.

CAN MATH MATERIALS FOR PRESCHOOLERS SUPPORT LEARNING THROUGH PLAY?

ABSOLUTELY, MATH MATERIALS DESIGNED FOR PRESCHOOLERS OFTEN SUPPORT LEARNING THROUGH PLAY BY INCORPORATING GAMES, PUZZLES, AND INTERACTIVE ACTIVITIES THAT MAKE MATH CONCEPTS ENJOYABLE AND MEANINGFUL.

How Important Are Visual Aids in Math Materials for Preschoolers?

Visual aids are very important in math materials for preschoolers as they help children grasp concepts like shapes, sizes, and numbers by providing clear and colorful representations that capture their attention.

What Types of Math Activities Can Be Done with Preschool Math Materials?

With preschool math materials, activities can include counting objects, sorting by color or shape, creating patterns, matching numbers to quantities, and simple addition or subtraction games.

Are Reusable Math Materials Better for Preschoolers?

Yes, reusable math materials are better because they allow for repeated practice, can be used in various activities, are environmentally friendly, and often offer more value over time.

How Can Teachers Integrate Math Materials into Preschool Classroom Routines?

Teachers can integrate math materials into daily routines by setting up math centers, incorporating counting and sorting during free play, using materials for group activities, and linking math concepts to stories and songs.

Additional Resources

1. *"Counting Kittens"*

This charming picture book introduces preschoolers to basic counting through playful kittens. Each page features a group of adorable kittens, encouraging children to count along and recognize numbers. The simple text and bright illustrations make learning to count a fun and engaging experience.

2. *"Shapes Everywhere!"*

"Shapes Everywhere!" helps young learners identify and name common geometric shapes in their everyday surroundings. With vibrant images and interactive prompts, children are encouraged to spot circles, squares, triangles, and more. This book builds foundational spatial awareness and shape recognition skills.

3. *"Ten Little Fingers and Ten Little Toes"*

This delightful book combines simple counting with a celebration of babies from around the world. It helps preschoolers count to ten while fostering an appreciation for diversity. The rhythmic text and colorful illustrations make it a favorite for early math and language development.

4. *"Patterns All Around"*

"Patterns All Around" introduces children to the concept of patterns through engaging images and activities. Kids learn to recognize, predict, and create simple patterns using colors, shapes, and objects. This book enhances critical thinking and sequencing skills essential for early math.

5. *"The Very Hungry Caterpillar's Counting Adventure"*

Based on the classic story, this book focuses on counting the caterpillar's food items as it grows. Preschoolers practice numbers and quantities in a fun narrative context. The familiar storyline paired with counting exercises helps reinforce numerical concepts.

6. *"Big and Small"*

This book teaches the concepts of size comparison by contrasting big and small objects. Through colorful illustrations and simple text, children learn to identify and describe sizes, an important early math skill. It encourages observation and vocabulary building related to measurement.

7. *"One Fish, Two Fish, Red Fish, Blue Fish"*

Dr. Seuss's classic book is perfect for introducing counting and colors to preschoolers. The playful rhymes

AND WHIMSICAL CREATURES MAKE LEARNING NUMBERS ENJOYABLE AND MEMORABLE. IT SUPPORTS EARLY NUMERACY AND COLOR RECOGNITION THROUGH IMAGINATIVE STORYTELLING.

8. "MEASURING PENNY"

IN "MEASURING PENNY," CHILDREN EXPLORE MEASUREMENT CONCEPTS BY MEASURING A DOG NAMED PENNY USING DIFFERENT UNITS LIKE INCHES, FEET, AND PAPER CLIPS. THIS HANDS-ON APPROACH HELPS PRESCHOOLERS UNDERSTAND LENGTH AND COMPARISON IN A RELATABLE WAY. THE STORY ENCOURAGES CURIOSITY AND PRACTICAL MATH SKILLS.

9. "MOUSE COUNT"

"MOUSE COUNT" IS AN ENGAGING STORY THAT INCORPORATES COUNTING AND SIMPLE ADDITION/SUBTRACTION. CHILDREN FOLLOW A MOUSE'S ADVENTURE AS IT TRIES TO ESCAPE A SNAKE'S JAR, COUNTING THE MICE ALONG THE WAY. THE SUSPENSEFUL YET GENTLE NARRATIVE SUPPORTS NUMBER RECOGNITION AND BASIC ARITHMETIC FUNDAMENTALS.

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math materials for preschoolers: *The Comprehensive Preschool Curriculum* Kay M. Albrecht, Linda G. Miller, 2004 Designed for teachers of three- to five-year-olds, Innovations: the comprehensive preschool curriculum focuses on encouraging, facilitating, and stimulating a child's development. It addresses the major developmental milestones that all preschool children face, such as adjusting to school, making friends, communicating, and problem-solving. Innovations: the comprehensive preschool curriculum is a unique combination of the practical and theoretical. Discussions of child development theories are accompanied by curriculum plans for 14 different areas, including science/discovery, sensory, art, literacy/writing, math/manipulatives, and movement/outdoors, among others. The book combines these elements in a way that provides a foundation for beginning teachers, support for experienced teachers, and a complete program for every teacher.--Page 4 of cover.

math materials for preschoolers: *Preschool Math* Robert A. Williams, Debra Cunningham, Joy Lubawy, 2005 Children will delight in the 140 activities that bring math to life in the classroom. This collection is organized by curriculum area, making it easy for teachers to integrate the activities into their daily plans. Teachers/parents.

math materials for preschoolers: **Preschool Math Workbook For Toddlers Ages 2-4** Ray Lisa, 2020-08-18 A new workbook focusing on the early stages of maths for toddlers and preschoolers! This workbook has been designed for kids ages 2-4. There are four fundamental math

concepts that your child should learn and become familiar with at this stage which are: Counting Addition and Subtraction Geometry Measurement & Data In this book, we will be covering the first 2 concepts, counting, and addition & subtraction. What you can expect with this book: The beginning of the book quickly covers the simplest concepts such as number tracing and number recognition. The majority of the book focuses on addition, subtraction, and one-to-one correspondence. Each exercise includes illustrations and visuals to help aid your child's problem-solving and also keep their full attention throughout the workbook. You are promised: Over 120 questions Hand visuals to help your child with addition and subtraction Optimized workflow from simple math concepts to more advanced. I am a mother of two and have been working with young children for over 20 years now. Throughout my career, I have been passionate and dedicated to helping parents with young children as well as early childhood educators. My experience has allowed me to understand the gaps in learning materials and what also needs to be improved which has driven me to create the best possible workbooks designed to accelerate the growth & development of young kids. I wish your child hours of fun & effective learning!

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math materials for preschoolers: *Math Activities and Games for Early Learners* Denise LaRose, 2007-01-23 Games and activities for both whole class and small groups introduce math concepts in a fun and interactive way.

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practice for the skills and functions needed for early childhood development. With more than 26 themes and 500 activities, this book makes it practically impossible to run out of ideas for teaching social, motor, memory, and auditory skills. The book includes ideas for movement, rhyming, circles, counting, games, and centers and comes with reproducibles, literature selections, Web site suggestions, and an index of activities by skill. This book supports NAEYC standards and aligns with state, national, and Canadian provincial standards.

math materials for preschoolers: Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2020-12-29 The third edition of this significant and groundbreaking book summarizes current research into how young children learn mathematics and how best to develop foundational knowledge to realize more effective teaching. Using straightforward, practical language, early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers understand children's level of mathematical understanding and lead to better teaching. By focusing on the inherent delight and curiosity behind young children's mathematical reasoning, learning trajectories ultimately make teaching more joyous: helping teachers understand the varying levels of knowledge exhibited by individual students, it allows them to better meet the learning needs of all children. This thoroughly revised and contemporary third edition of *Learning and Teaching Early Math* remains the definitive, research-based resource to help teachers understand the learning trajectories of early mathematics and become confident, credible professionals. The new edition draws on numerous new research studies, offers expanded international examples, and includes updated illustrations throughout. This new edition is closely linked with *Learning and Teaching with Learning Trajectories*-[LT]2-an open-access, web-based tool for early childhood educators to learn about how children think and learn about mathematics. Head to LearningTrajectories.org for ongoing updates, interactive games, and practical tools that support classroom learning.

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math materials for preschoolers: The Weekly Curriculum Barbara Backer, 2003 What's your plan? If you're not sure, this great big book has the answer! With 52 weekly plans, it's easy to come up with appropriate learning experiences that children will love. This essential classroom resource covers special holidays, seasonal topics, everyday plans, and other things you've probably never thought of, such as National Pretzel Month or National Pancake Day!

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informs best practice for enhancing young children's STEM learning experiences in formal settings such as preschool environments and less formal settings such as home environments. It is the first collection of multidisciplinary and multinational studies on early STEM programs worldwide and presents diverse, authentic, and current STEM-relevant scenarios that address two fundamental problems: where are we in early STEM education? and where shall we go? The book explores factors that influence young learners' abilities to make informed choices in authentic, problem-based, STEM-relevant scenarios and how those abilities have been identified, documented, and enhanced. Chapters address topics related to curriculum and pedagogy, teacher education and professional development, family environment, and inclusive education from a variety of international settings including Australia, Germany, Hong Kong, Mainland China, Singapore, and the United States. Each chapter is based around a research project and describes relevant background information from the research literature, details of how the study was designed, findings from the study, and discussion as to what the findings mean for practical implementation. *Developing Culturally and Developmentally Appropriate Early STEM Learning Experiences* will be a key resource for researchers and practitioners of early childhood education and care, STEM education, educational psychology, educational research, and educational technology. This book was originally published as a special issue of the journal *Early Education and Development*.

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math materials for preschoolers: *Redleaf Family Child Care Curriculum, Third Edition* Sharon Woodward, Bisa Batten Lewis, 2025-11-11 Over 200 developmentally appropriate learning experiences to choose from. The Redleaf Family Child Care Curriculum, third edition, provides the same user-friendly format you trust with new content and ideas for hundreds of creative and inclusive learning experiences. Activities are organized by age and developmental domain—physical and motor, cognitive, communication and language, social-emotional, and approaches to learning. This easy-to-use reference allows you to make choices based on the needs of the children in your care. The book contains a complete curriculum for a successful family child care program that promotes the healthy development of infants, toddlers, and preschool and school-age children in a caring, nurturing environment. The updated curriculum now includes: New sections on caring for school-age children before and after school and during school breaks. New research and best practices for supporting dual-language learners as well as children with diagnosed disabilities or additional support needs. Enhanced strategies and information for working with families and being culturally responsive. Enrich your program and support children's early learning with best practices and activities designed specifically for family child care professionals.

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