Shapes and Balls

Thank you for your interest in this *The Cat in the Hat Knows a Lot About That* Ready to Learn backpack. The education team at Iowa PBS is excited that you have chosen to enrich your child’s learning.

Contents

**6 Books:**  
*Mouse Shapes* by Ellen Stoll Walsh  
*Round is a Mooncake* by Roseanne Thong  
*Ten Black Dots* by Donald Crews  
*Oscar and the Cricket, A Book About Moving and Rolling* by Geoff Waring  
*Shapes, Shapes, Shapes* by Tana Hoban  
*Math Counts: Shapes* by Henry Pluckrose

**Activity:** Alphabet Pattern Blocks, Make a Super Bouncy Ball

**Materials:** Balls to bounce and compare, bag of pattern shapes

Read Together

Asking your child questions as you read helps them think about the story and encourages them to ask their own questions. Here are some sample questions to ask your child as you read *Ten Black Dots* by Donald Crews.

• Show the cover illustration. What does your child notice? Have them describe what they see. How many black dots are there? Count.

• What can you do with ten dots? You may need to define new vocabulary: eyes, keys, portholes, freight. Come up with as many ideas as possible about what can be made with ten dots.

• What else is round like the ten black dots?

Play Together

Playing with your child can be fun for them and for you, and asking questions will help your child learn.

• Talk about the different shapes, sizes, and weights of the balls.

• Have a bouncing contest. Who can bounce a ball the highest? Which ball bounces the longest? Which ball doesn't bounce and why? Does size or weight change how a ball bounces?

• Look through your home collection of balls: football, basketball, soccer ball, baseball, softball, tennis ball, beach ball. Compare how they bounce. Which bounces the highest? How do each of the different balls roll?

• Fill water balloons. How does the water change the bouncing of the balloon?

• Talk about the names of the shapes of the pattern blocks (triangle, parallelogram, trapezoid, square, rectangle, triangle). Use the pattern shapes to make pictures. Can the same design be made using different shapes (replace an octagon with two trapezoids).

• Make a design and challenge someone to re-create the design using different pieces.

Online Activities

Go to [iowapbs.org/education/story/36383/science-resources-and-activities-ages-4-8](http://iowapbs.org/education/story/36383/science-resources-and-activities-ages-4-8) to watch *The Cat in the Hat Knows a Lot About That: Play Ball* and also try the Alphabet Pattern Blocks activities as well.

Find more information about Iowa PBS Education at [iowapbs.org/education](http://iowapbs.org/education). More PBS educational content can be found at [pbskids.org](http://pbskids.org).

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