# 0 Math+Science Connection 

## Pair and add

Pairing numbers together to make 5,10 , or 100 will simplify addition for your little math learner. Here's how.
creative with what she chooses! She might solve $5-2=3$ with pickles or $7+4=11$ with cookie cutters. Using what teachers call manipulatives (objects you can move around) will boost her understanding because they're hands-on.

## Be a little chemist

For an early introduction to chemistry, suggest that your youngster squish together a few colors of play dough. Now, can he separate them back out? Nope, because he just bound them together. That's the same thing that happens when elements bond. They become something new-a compound!

## Web picks

ㅁ. With a click and a drag, your child will be able to visualize place value while having fun at learningbox.com/ base10/BaseTen.html.
모 If your youngster has never seen an aye-aye or a regal horned lizard, she could check out those creatures, and more, at kids.nationalgeographic.com/ animals.

## Just for fun

Q: How can you tell that carrots are good for your eyes?
A: You never see rabbits wearing glasses!


Why am I measuring?
Inches, ounces, and pounds.. does your youngster know why we measure things? Use these ideas to explain.

Babies. Pull out pictures from when your child was a baby. You can tell her how the doctor checked her weight and length regularly to make sure she was growing properly.

- Help her measure and weigh her dolls or stuffed animals. She could compare to see which ones are longer and shorter or heavier and lighter.


Shoes. When your youngster gets new shoes, the clerk measures her feet to see what size they are. That helps her find shoes that fit.

- Let your child measure your foot. She might line up Legos or paper clips, end to end, to see how many Legos-long or paper clips-long your foot is.

Produce. At the grocery store, point out the scale you use to weigh the fruits and vegetables, and explain how you pay for them by the pound.

- Have your youngster help you weigh the grapes or winter
 squash you're buying. Ask her to read the numbers on the scale to determine the ounces or pounds.

Amaze your youngster with this engineering experiment where a single layer of glue makes two index cards stronger.

You'll need: 2 plastic cups, ruler, 4 index cards, glue, 30 pennies

## Here's how:

Have your child glue 2 index cards together and
 let them dry. Then, he can turn the cups upside down on a table (about 4 inches apart) and lay the two unglued cards on top, one over the other. Let him put pennies on the cards, counting one by one, until the cards tumble. How many pennies did they hold? Next, he should repeat his experiment with the glued cards.

What happens? The glued cards will hold more pennies.

Why? Gluing the cards together makes them sturdier. This same principle of layering materials together is used to make building materials stronger.

## PARENT Time after time PARENT is learning about telling

 and writing time. His teacher suggested a fun way to work on this at home.First, we needed to make a clock. So Andrew drew a circle on cardboard and wrote the numbers $1-12$ around it. He used a long crayon
 as the minute hand and a broken crayon for the hour hand. Then on scrap paper, we wrote times like 3:30, 6:00, and 9:30.

To practice telling time, Andrew chooses 3 papers and moves his crayon "hands" to show those times. Or I show a time on the clock, and then Andrew finds the slip of paper that matches that time.

The more we do this, the better he's getting at telling time. Now he points at the kitchen clock when it's at an hour or a half-hour mark and tells me the time!

## MATH Putting shapes where they go

Where, oh, where did that little square go? Is it left, right, or in the middle? With this geometry activity, your youngster and a friend will enjoy using shape and position words.

Materials: construction paper, markers

1. Have each person draw a tic-tac-toe board.
2. One player secretly adds a shape (square, circle, triangle, rectangle) into 3 or 4 spaces on her board.
3. She gives directions so her friend can match her board. Examples: "I have a square in the top middle space." "I have a circle in the bottom row on the right."
4. The other player uses the clues to draw the same shapes in the same places on his board.
5. When all the directions are given, compare boards. Are they the same?
6. Make new boards, and swap roles.
