

count · play · explore

DISCOVER THE POWER OF MATH

Early math activities for you and your child to enjoy together.

Babies Count - Count your baby's fingers. "One finger, two fingers, three fingers, four fingers, and one thumb."

Toddlers Count - Use clay to create numbers one, two, and three with your toddler. Place a corresponding number of objects below the clay number.

Preschoolers Count - Draw 5 squares. Write the numbers 1-5, each on its own square. Fill each numbered square with a corresponding number of objects.

Kindergarteners Count - Roll a dice. Practice writing the number that you rolled.

Grade School Kids Count - Ask your child what number they need to add to 10 to get the following numbers: 17, 14, 28, 12, 43, 19, 15, 20, and 11. For example for 17 you need to add 7 to 10 to get 17.

Babies Play - Play peek-a-boo with your baby. This game helps babies understand that you're still there, even when they can't see your face.

Toddlers Play - Play with dominoes or blocks. Stack them. Build structures. Let them tumble into each other in a chain reaction.

Preschoolers Play - Play finger games with your child. Hold up any number of fingers. Ask your child to show with their fingers what one less finger would look like, what two more fingers would look like, etc.

Kindergarteners Play - Play dominos with your child. There are many different games you can play with a set of dominos. Find some at <https://bit.ly/34oqiV6>.

Grade School Kids Explore - Play "What's my number?" Choose a number between 0 and 30. Keep the number a secret. Your opponent may ask five questions to guess the number. For example: "Is it bigger than 10?" or "Is the number even?"

Babies Explore - Talk about what goes first, second, and third in your baby's bedtime routine. Use the words "first," "next," "then," "second," "third," "last," "today," "tomorrow," and "yesterday" when talking about routines.

Toddlers Explore - Make a batch of homemade play dough together (Recipe: <https://bit.ly/2HvKWd2>). Explore the textures, measurements, and how it changes when the ingredients are put together.

Preschoolers Explore - Explore the meaning of the word "pair." Think about things that come in pairs, such as a pair of socks, a pair of eyes, a pair of shoes, a pair of chopsticks. What other objects come in a pair?

Kindergarteners Explore - Explore cooking together. Make this trail mix recipe <https://bit.ly/35skXvp> inspired by the book *Pretend Soup* written by Mollie Katzen or make your child's favorite meal together. Or try both!

Grade School Kids Explore - Talk about even and odd numbers. Even numbers end in 0, 2, 4, 6, or 8. Odd numbers end in 1, 3, 5, 7, or 9. Are the numbers 15, 2, 8, 100, and 33 even or odd? Explain which are even and which are odd. How do you know?





STEM FAMILY ACTIVITIES

for independent learning

REDUCE-REUSE-RECYCLE

Activity:

1. How much trash do you think your family creates in 1 day? Let's find out
Keep a piece of paper and pencil by each trash can in your house. When someone puts a piece of trash into the can, they record what was thrown away. To organize your data, make categories of the most common types of trash you think your family throws away each day
Here is an example of possible categories:

Paper	Plastic	Metal	Glass	Other
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Optional Technology Connections:

- Read-aloud of the book
"Michael Recycle meets
Litterbug Doug"
tingurl.com/LitterbugDoug



2. At the end of the day, look at the data collected.
Make a graph of how much of each type of trash was collected.
What do you notice? What do you wonder?
Can you think of ways to reduce the amount of trash created?

- Play the "Recycle Roundup" game
tingurl.com/recyclesorting



3. Recycling is one of the easiest ways to reduce the amount of garbage we throw away. If you don't have a recycle bin in your house, create one. Then encourage each family member to put paper, plastic bottles, and aluminum cans into the recycle bin and not the trash.

- Watch this video to find out how Adidas is turning plastic bottles into shoes.
tingurl.com/shoesofplastic



4. Look in your recycle bin. Can you design something you can use around your house? For example, use a soup can as a pencil holder or a glass jar as a vase for flowers. Be creative! Be Earth-friendly!

- Check out this website for craft projects ideas using items such as plastic bottles, toilet paper tubes, paper plates, and more!
tingurl.com/craftprojects

Optional: Go to this link to print a "STEM journal" to record your observations and questions.
tingurl.com/STEMjournal8



fresno county
superintendent of schools

For more resources or support, contact
Jon Dueck, FCSS STEM Direction – jdueck@fcoe.org
or visit our website: stem.fcoe.org