

count · play · explore

DISCOVER THE POWER OF MATH

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

Babies Count - Count the nose, eyes, and feet of your baby's favorite stuffed animal. Point as you count, "This animal has two eyes, one nose, and four feet."

Toddlers Count - Count outside. How many dogs do you see when you go for a walk? How many bicycles do you see? How many trees do you see?

Preschoolers Count - Count stairs together next time you climb a staircase. Are there stairs where you live. If so, how many stair steps are there?

Kindergarteners Count - Read *100 Bugs! A Counting Book* by Kate Palaces Narita at <https://binged.it/35z3eCC>. Then see if you can find ten bugs of one kind.

Grade School Kids Count - Line up five stuffed animals from shortest to tallest. Measure the length of the five stuffed animals. How long are they in feet and inches?

Babies Play - While your baby is playing with toy animals make the noise the animal makes in real life. This will help your baby recognize the types of sounds each animal makes. Moo!

Toddlers Play - Give your toddler a group of different toys. Help them sort the toys into groups based on size, shape, or color. These toys are blue. Those toys are big.

Preschoolers Play - Play with recycled objects. What can a box, a cardboard tube, and a milk carton become? Use your imagination and create something fun. Follow up by reading *Jack the Builder* by Stuart J. Murphy at <https://bit.ly/2HsPwci>.

Kindergarteners Play - Cut out paper shapes. Encourage your child to arrange the shapes to look like different animals. Use triangles for eyes, squares for noses, etc.

Grade School Kids Play - Go on a pattern scavenger hunt. How many patterns can you find in your home or neighborhood? Encourage your child to describe the patterns and tell you what comes next in the pattern.

Babies Explore - Give your baby a soft ball and encourage them to explore how the ball rolls, bounces, and moves. What happens when the ball is dropped?

Toddlers Explore - Gather objects from nature with your toddler; sticks, pebbles, leaves, pinecones, shells, etc. Group, count, and compare the objects together.

Preschoolers Explore - Explore how seeds grow. Fill a small jar with moist paper towels. Place several bean seeds on top of the paper towels. Keep them moist. Put the jar in a window and notice what happens every day for 10 days.

Kindergarteners Explore - Read *Actual Size* by Steve Jenkins at <https://binged.it/31ABs7r>. Find out more about the animals that interest your child. What do they eat? Where do they live?

Grade School Kids Explore - What interests your child? Animals, space flight, trains, cars, or the ocean? What does your child want to know about? Investigate answers to their questions. Discuss which sources of information are most reliable and why.

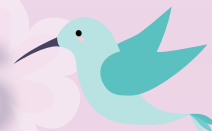




STEM FAMILY ACTIVITIES

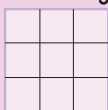
for independent learning

PLANTS AND POLLINATORS



Activity:

1. Each person creates a Bingo Card with 9 boxes



Inside each box, write one of the following organisms (in any order):

- Bee
- Hummingbird
- Butterfly
- Bright-colored flower
- Sweet-smelling flower
- FREE SPACE
- Moth
- Ladybug
- Fly



Optional Technology Connections:

Go online and research each of the insects listed on your Bingo Card. Can you figure out the relationship between each insect and flowers. Why are some flowers so brightly colored or why do some flowers smell so sweet?



2. Take your bingo cards outside. Put an "X" in the box when you find one of the organisms on your card. The first person to find 3 in a row is the winner!

Use the phone app "Seek by iNaturalist" to identify the plants and insects you found in your yard or neighborhood.



3. Find a flowering plant with bees buzzing around. Careful – don't get too close! Spend a few minutes observing the bees Count the number of bees you find.

Take a slow-motion video of the pollinators to watch them in action!



4. What did you notice about the different insects you found while playing Bingo? What questions do you have?

Read about the top ten coolest pollinators!
tingurl.com/coolpollinators

5. Flower dissection – choose one large flower and carefully pull off the petals. Look for the yellow powder in the middle of the flower. What is this? Why is it important?

Watch this video to learn more about plants and pollination:
tingurl.com/insideaflower

Optional: Go to this link to print a "STEM journal" to record your observations and questions.
tingurl.com/STEMjournal5



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