

Five-Sense Science

P
Preschool



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Your Five Senses!

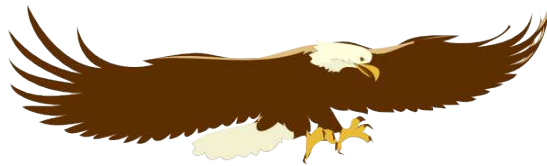
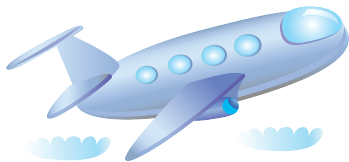
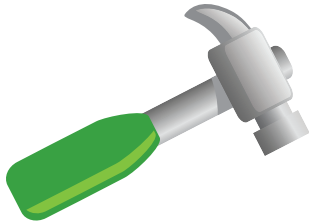
Check the senses that you use with each object.



Your Sense of Sight



You use your eyes to see.
Circle the things below that you can see,
but can't touch.



Draw some other things that you can see,
but can't touch.

Take a Closer Look

Lily is taking a closer look at her garden.
Look into the magnifying glass and circle the flower that she's looking at!



Yellow Science

Does your preschooler love the color yellow? Here's a fun science project that's easy enough to do at home. Using different yellow-colored objects, you and your child will conduct a science experiment mixing different liquid substances with each object. It's her job to shake and roll the bottles as she observes what's happening inside them. She'll love shaking up the bottles and the color theme, and you'll love that all of this will help your child increase her observation and comparing skills!

What You Need:

- ~ Four 20oz. plastic soda bottles, with caps
- ~ Yellow crayon shavings
- ~ Water
- ~ Liquid detergent
- ~ Yellow tempera paint
- ~ Thick yellow yarn
- ~ Yellow food coloring
- ~ Glitter
- ~ Clear hair gel



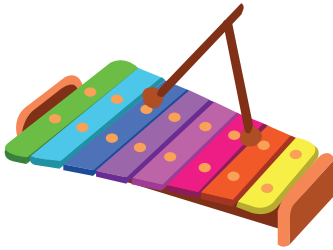
What You Do:

1. Rinse and clean each bottle before use.
2. Peel off the paper on the yellow crayon. Use a butter knife to scrape about 2 tablespoons of shavings off the crayon.
3. Drop the shavings into the first bottle, and then fill it with water. Screw the cap back on.
4. In the second bottle, add 1 tablespoon of liquid detergent, 2 tablespoons of water, and 1 teaspoon of yellow tempera paint.
5. Add a 4" piece of thick yellow yarn to the third bottle, and fill it with water.
6. In the fourth bottle, add 2 drops of yellow food coloring, 1 teaspoon of glitter, and 1/4 cup of clear hair gel. Make sure all bottles have the cap on securely.
7. Now shake, roll, and turn the bottles upside down. Describe what you see happening in each bottle!

Your Sense of Hearing



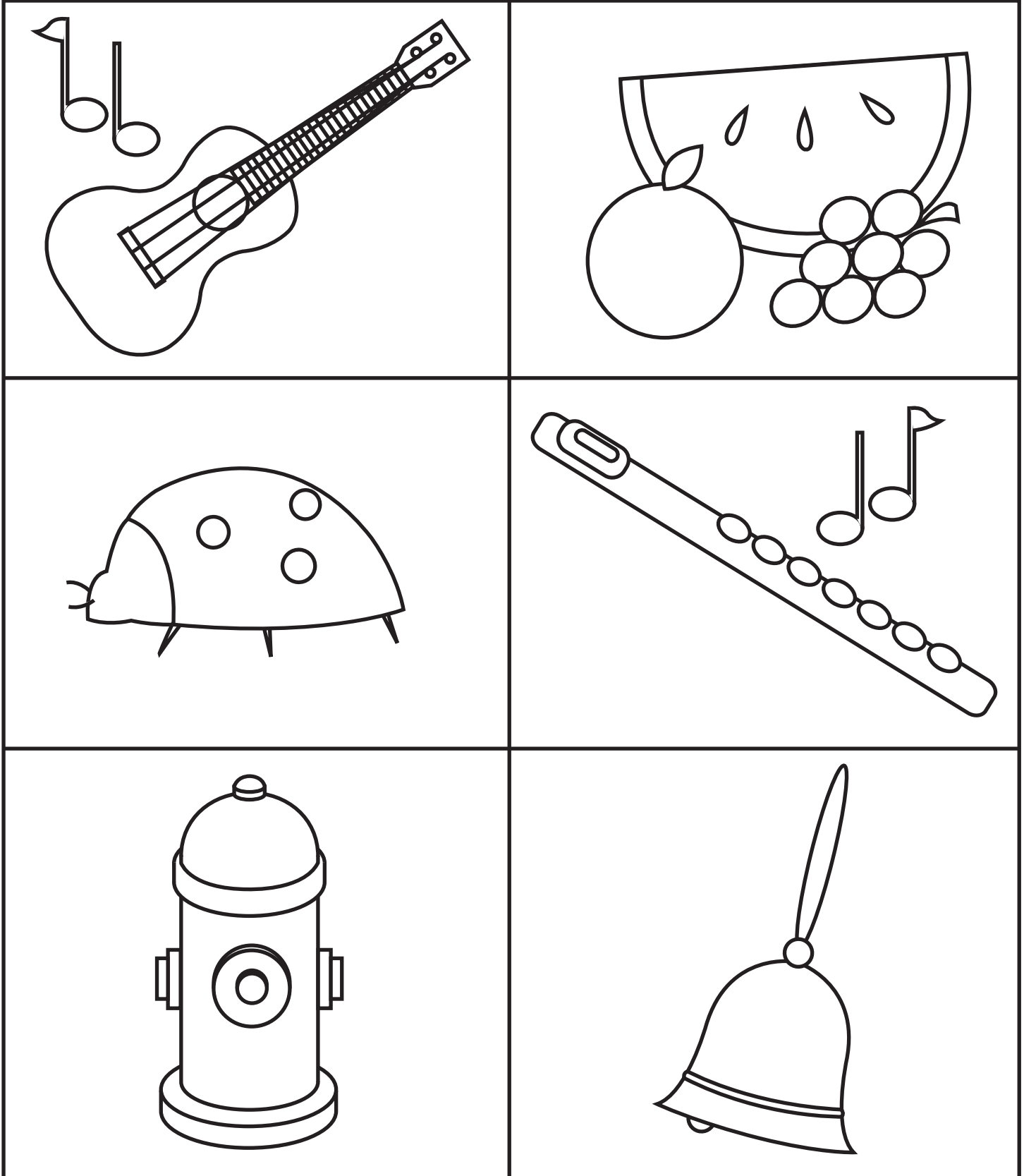
You use your ears to hear.
Circle the things below that make sound.



Draw some other things that make sound.

The Five Senses: Hearing

Color the pictures of the things that you can hear!

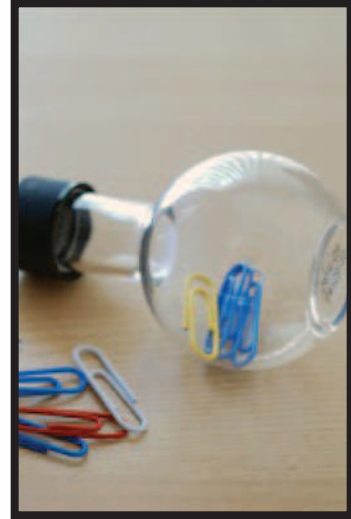


Sound SHAKERS

Here's a musical experiment that mixes different sounds, science, and math, all in one! Create Sound Shakers using plastic containers and an assortment of different objects, from sand to paper clips. Your preschooler will practice comparison, observation, and patterns as he makes his own beats with these fun shakers!

What You Need:

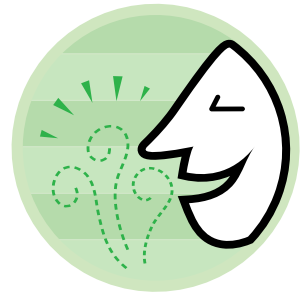
- ~Five fillable clear plastic holiday ornaments (available at craft stores)
- ~Buttons
- ~Sand
- ~Sequins
- ~Paper clips
- ~Small corks
- ~Tape



What You Do:

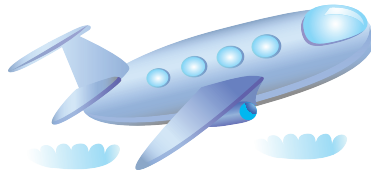
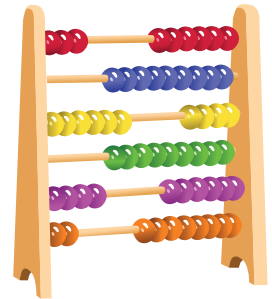
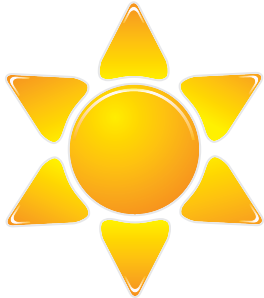
1. Put the buttons in one ornament, the sand in another, the sequins in the third, the small corks in the fourth, and the paper clips in the last. Or feel free to fill the ornaments with other items of your choice.
2. Attach the two pieces of each ornament back together and carefully secure it with tape. This is especially important when working with young children.
3. Invite your child to shake each one and compare the differences between sounds. Comparing sounds helps prepare preschool brains for more complex science experiments once kids start school.
4. Use one shaker to make a beat and encourage your child to imitate you. Then invite him to come up with his own rhythms! This will improve his math skills as he learns to recognize the different patterns hidden in beats.

Your Sense of Smell



You use your nose to smell.

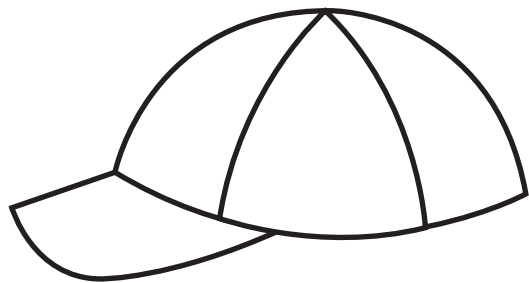
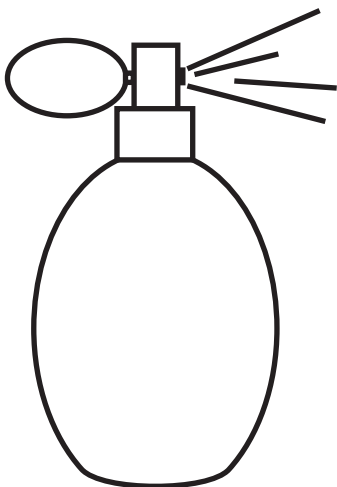
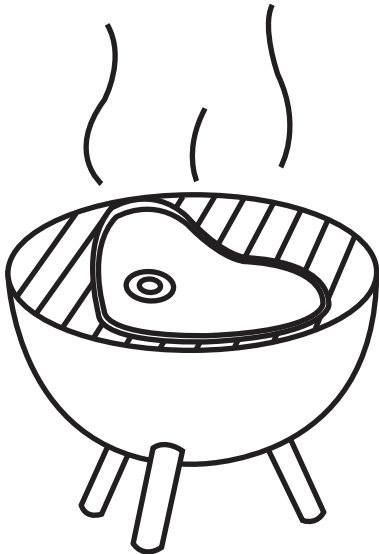
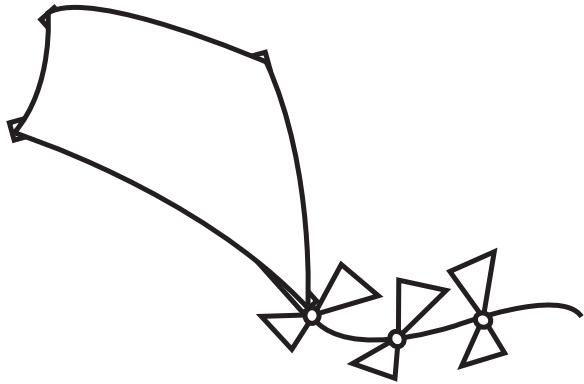
Circle the things below that have a strong smell.



Draw some other things that you can smell.

The Five Senses: Smell

Color the pictures of the things that you can smell!



Smell Science: The Nose Knows!

Kids intuitively use their five senses (sight, smell, touch, sound, and taste) to learn about the world around them. In kindergarten, the senses are also an early science topic. Exploring the senses in a scientific way helps kids begin building lifetime skills in making observations and drawing conclusions. With this experiment, your kindergartener will give her nose a workout by using her sense of smell to examine objects and find matching scents.

What You Need:

- ~8-10 small airtight containers (You need two canisters per scent. Film canisters are great if you can get them, but small Tupperware containers, envelopes, or even boxes also work well.)
- ~Cotton balls
- ~4-5 scents of fragrances such as perfume or cologne, vanilla flavoring, lemon juice, baby powder, cinnamon, onion powder, and almond flavoring. (Be creative!)



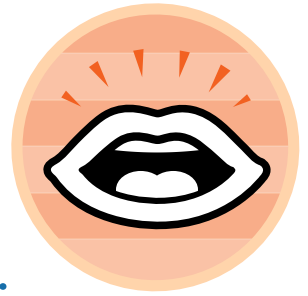
What You Do:

1. Number the canisters from 1-8 or 1-10.
2. Soak two cotton balls in each scent, and place each in its own container. Be sure to mix them up!
3. Ask your child to sniff the contents of the first container.
4. Explain to her that each container has a matching “scent twin” and her job is to use her sense of smell to match the scents.
5. Have your child start sniffing and pairing up the matching scents. Remind her to take a big whiff as she sniffs each container.
6. Help record her findings by writing down which containers have matching scents. Can she find the matches for all the scents? For an added challenge, see if she can identify each scent.
7. When all the scents are paired, discuss the results of the experiment. How could she tell which scent matched with another? Which scents were most similar, and which were most different?

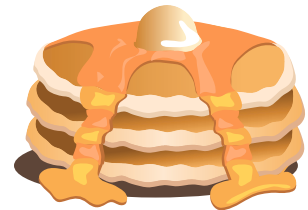
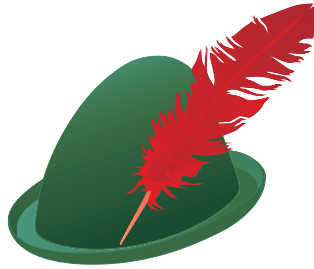
Matching Pairs:	What scent is it?	How did you know they match?
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

*Extend the experiment by having some fun with another “test subject” such as a relative or friend. Which scents are the hardest to pin down? Who’s got an especially “knowing” nose?

Your Sense of Taste



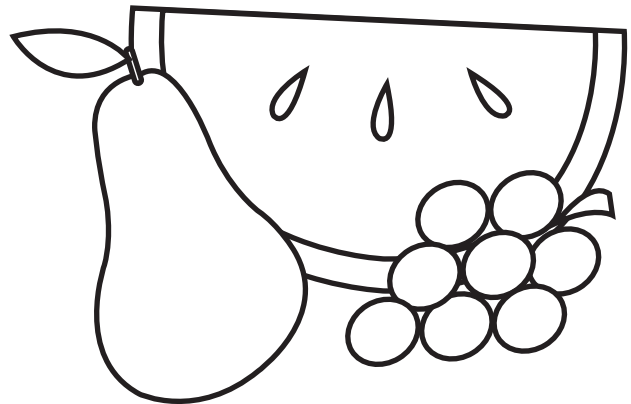
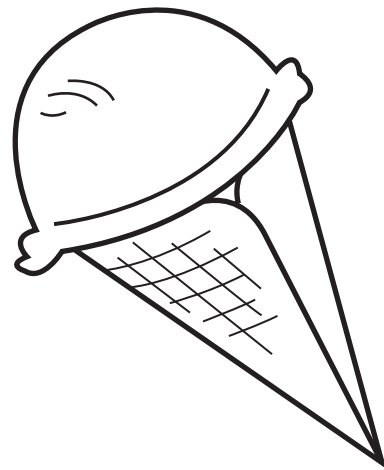
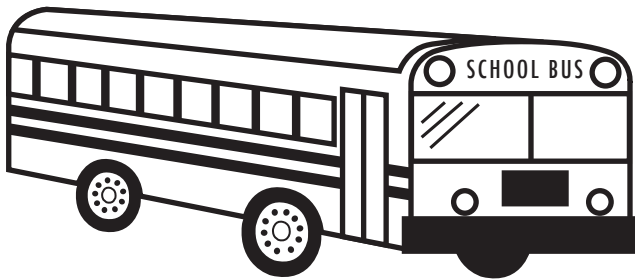
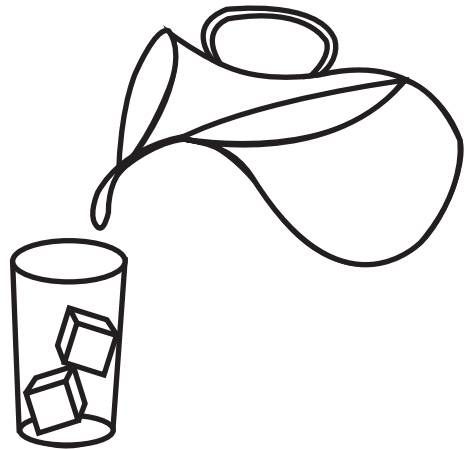
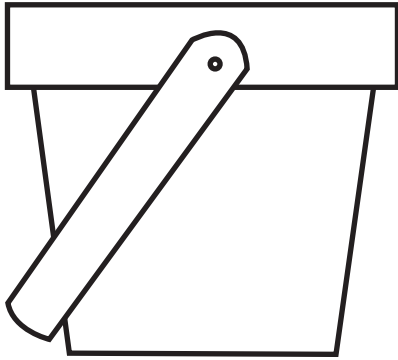
You use your tongue to taste.
Circle the things below that taste good to you.



Draw some other things that taste good!

The Five Senses: Taste

Color the pictures of the things that you can taste!



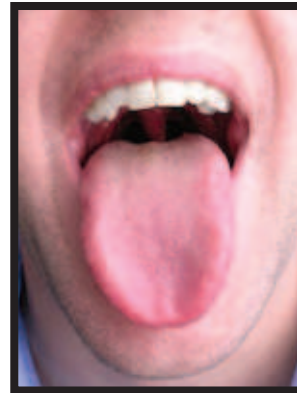
Taste Test

Can you identify the four basic tastes: sweet, sour, salty and bitter?

What You Will Need:

(Amounts will vary if more than one child participates in the project. The materials used below are suggestions; substitute foods as you see fit.)

- ~ Twelve small containers
- ~ One spoonful of sugar
- ~ One mint candy
- ~ One spoonful of honey
- ~ One lemon wedge
- ~ One pickle
- ~ One spoonful of plain yogurt
- ~ One spoonful of salt
- ~ One salted potato chip
- ~ One bit of parmesan cheese
- ~ One bit of unsweetened baker's chocolate
- ~ One spoonful of decaf coffee
- ~ One piece of grapefruit rind



What You Do:

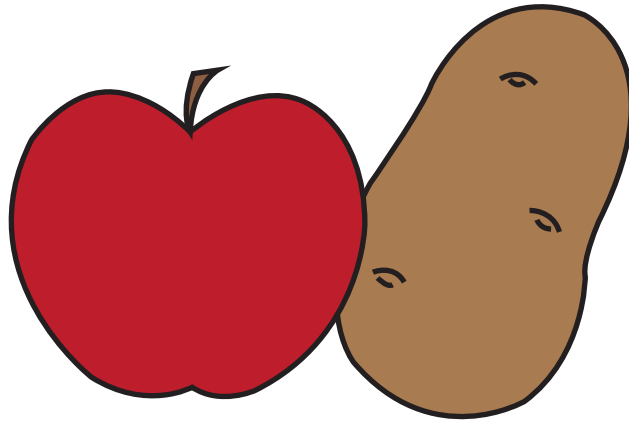
1. Put one food item into each small container.
2. Invite your child to taste each of the foods. Decide which of the four basic tastes each food is most like. (You will probably come up with four groups of three foods each: three sweet things, three sour things, three salty things, and three bitter things. If not, that's okay; the important thing is that you are exploring the sense of taste.)
3. All flavors are made up of some combination of these tastes. Try tasting other foods. Where would you place them among the twelve you began with?

Sweet	Sour	Salty	Bitter

A Tasty Experiment

What You Will Need:

- ~ Slices of potato
- ~ Slices of apple



What You Will Do:

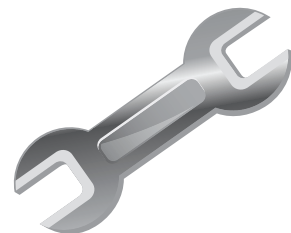
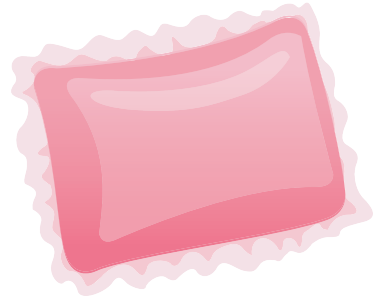
1. Taste the potato.
2. Now pinch your nose and taste the potato again.
3. Taste the apple.
4. Now pinch your nose and taste the apple again.
5. Try this tasty experiment with other foods!

Is there a difference in taste when you pinch your nose?

Your Sense of Touch



You can use your hands to touch.
Circle the things below that feel soft.

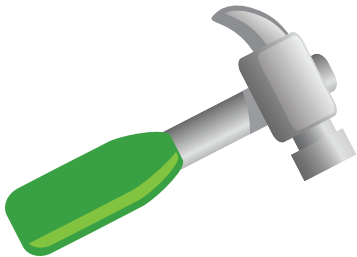
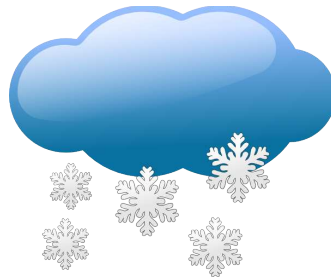


Draw some other things that feel soft.

Your Sense of Touch



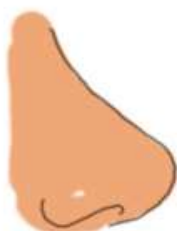
You use your hands to touch.
Circle the things below that feel cold.



Draw some other things that feel cold.

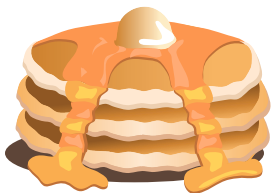
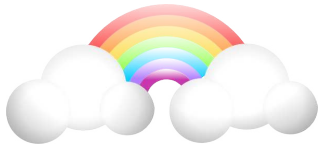
Five Senses

Which sense goes best with each picture on the right?
Draw a line to connect the best matches.



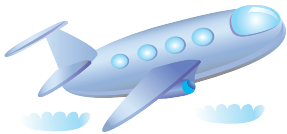
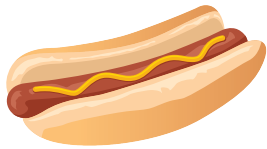
Your Five Senses!

Check the senses that you use with each object.



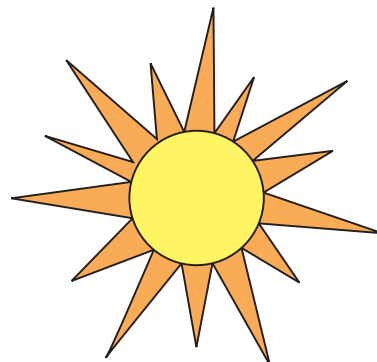
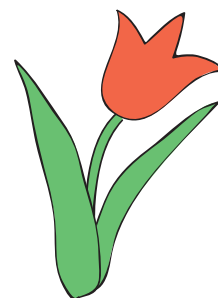
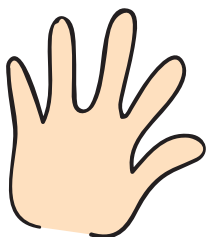
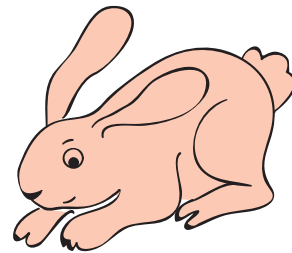
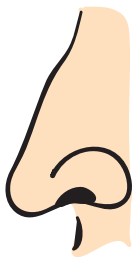
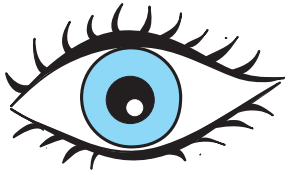
Your Five Senses!

Check the senses that you use with each object.



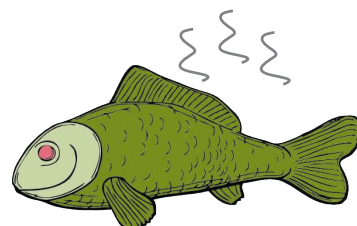
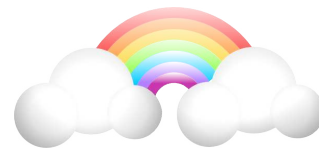
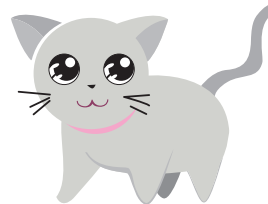
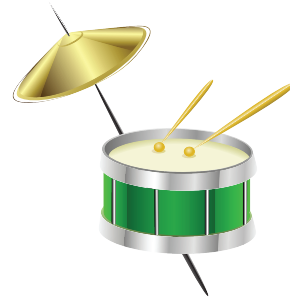
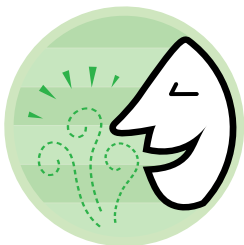
My Five Senses

Match the pictures to the correct senses.



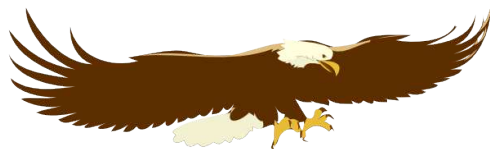
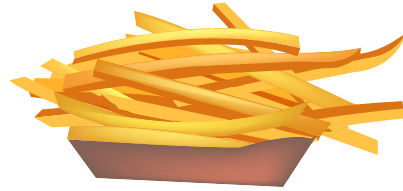
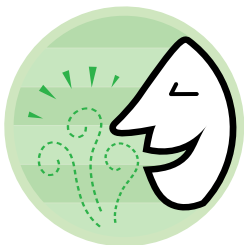
Match Your Five Senses

Which sense goes best with each picture?
Draw a line from the picture to the sense.



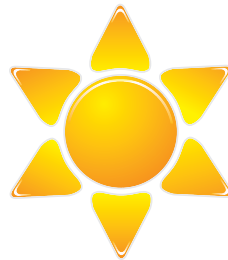
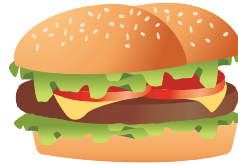
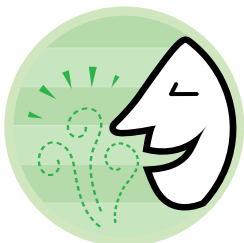
Match Your Five Senses

Which sense goes best with each picture?
Draw a line from the picture to the sense.



Match Your Five Senses

Which sense goes best with each picture?
Draw a line from the picture to the sense.



All Five Senses: Popcorn Science

Have you ever noticed that whenever you pop a bag of popcorn in the microwave, somehow the entire family knows and shows up to share the tasty treat? That's because it's a "multisensory" snack, or a snack that incorporates all five senses. This activity is an appetizing way to teach your kindergartener what the five senses are all about! Just pop a bag of popcorn and she's ready to learn.

What You Need:

- ~ Hot air popcorn popper or microwave
- ~ Popcorn
- ~ Blank Paper
- ~ Pencil
- ~ Crayons or markers
- ~ Scissors
- ~ Glue



What You Do:

1. Encourage your child to describe how she uses each body part to learn about things. For example, eyes are for seeing and observing, ears are for listening, a nose is for smelling, etc.
2. Invite your child to flip through old magazines in search of pictures of a nose, eyes, a mouth, ears, and hands. Help your kindergartener cut them out and glue each item onto a separate sheet of paper.
3. Stick the popcorn in the microwave and hand your child the recording sheets to record what she sees, hears, and smells as the popcorn pops. Then when the popcorn is finished cooking (and has cooled down a bit) invite her to record how the popcorn feels and tastes!
4. On each sheet she will describe one of the five senses. For example, on the paper with the nose on it she'll describe what she smells, on the paper with the ears she'll describe what she hears, etc. She can draw pictures, dictate her observations to you, or record her own if she's started writing.
5. Then enjoy your tasty snack! Talk about her observations, and be sure to ask questions like, "If the popcorn smelled like garbage, would you still want to eat it?" and "If the popcorn felt slimy, would you still want to touch it?"
6. Try to think of other foods you could use in addition to popcorn, like Rice Crispies. It's a delicious way to teach your child how all 5 senses are important!



Great job!

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