



Say 'Cheese'!



Mini Fact:

George Eastman of Rochester, New York, invented the hand-held camera in 1888.

Modern cameras

Digital cameras are much faster: They capture the light coming into the camera and break the image up into millions of **pixels**, then store it as a computerized file that can be uploaded to a computer or viewed on the camera itself.

Although today people still use cameras (and some still use film), most of us use our mobile phones to take quick snapshots.

Why take pictures?

Before cameras came along, people had to draw or paint pictures of other people, places or things they wanted to record. Wealthy families paid artists to paint their portraits.

Photography offered a new way to share information with others, whether it was a family portrait or photos from a trip far away. Newspapers, books and magazines could illustrate an article to make it more interesting and understandable.

Artists began to work with different lighting, focus and exposure techniques to make unusual pieces of art. In this 1942 photograph called "The Tetons and the Snake River," photographer Ansel Adams captured the dramatic clouds, sunlight and shadows falling over the landscape in Grand Teton National Park in Wyoming.



Image courtesy National Archives

Are you a **shutterbug**? This is a nickname for someone who likes to take a lot of pictures.

Early photography

People have been using cameras to record images since 1839, when a Frenchman named Louis Daguerre used chemicals to make a thin piece of silver-coated metal sensitive to light. He put the sheet in a camera and exposed it to light. Pictures taken this way, called **daguerreotypes** (duh-GEHR-uh-types), could take up to 40 minutes, and you could get only one image on each metal sheet.



Louis Daguerre in his studio.

Cameras evolved over the 19th and 20th centuries. Almost all cameras used **film**, a long strip of plastic material, until around 1990, when **digital** cameras began to be sold.



Film had to be removed from the camera and **developed**, using chemicals, into photos printed on paper. Photographers might develop their own photos in a **darkroom**, but most people had to take the film to a store that provided developing services. Bad photos were developed right alongside the good ones, making film an expensive choice.

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Try 'n' Find

Words that remind us of photography are hidden in this puzzle. Some words are hidden backward or diagonally, and some letters are used twice. See if you can find:



CAMERA, COMMERCIAL, COMPOSE, DAGUERREOTYPE, DARKROOM, DEVELOP, DIGITAL, EXPOSURE, FILM, FOCUS, IMAGE, LIGHT, NEWS, PHONE, PHOTO, PIXELS, POLICE, PORTRAIT, SHUTTERBUG, SPORTS.

C D M A S T R O P S E G A M I
A A L C R E X P O S U R E Y A
M R I N L A T I G I D C E G P
E K F X L A I C R E M M O C O
R R G U B R E T T U H S L F L
A O D E V E L O P T H G I L I
P O R T R A I T P I X E L S C
D M O T O H P P H O N E Z N E
S W E N L E C O M P O S E P A
D S E P Y T O E R R E U G A D

Cook's Corner

Vegetable Bake

You'll need:

- 2 cups carrots, thinly sliced
- 2 cups zucchini, thinly sliced
- 2 medium tomatoes, thinly sliced
- 1/4 red onion, thinly sliced
- 1/4 teaspoon salt
- dash of lemon pepper

- 1/4 cup brown sugar
- 1/4 cup Italian seasoned bread crumbs
- 1 tablespoon butter, cut into small pieces
- 1/2 cup shredded reduced-fat cheddar cheese



What to do:

1. Layer first four ingredients in a rectangular 11-by-7-inch baking dish sprayed with cooking spray.
2. Combine salt, lemon pepper, brown sugar and bread crumbs in a small bowl. Sprinkle over layered vegetables. Dot with butter and top with shredded cheese.
3. Bake, covered, at 350 degrees for 30 minutes. Uncover and bake another 20 minutes.

* You'll need an adult's help with this recipe.

1. Having bright hues (8 letter adj)

□ □ □ □ □ □ □ □

2. Lips that turn up to show happiness and pleasure (5 letter noun)

□ □ □ □ □

3. Number of people or things that are together (5 letter noun)

□ □ □ □ □

4. Piece of equipment used to take pictures (6 letter noun)

□ □ □ □ □ □

1. Sue prefers a _____ blanket with reds, blues and yellows.
2. Every time Miguel sees his puppy, he begins to _____.
3. The _____ of band members played for over one hour.
4. Kelly has a _____ in her phone, and she uses it often.

ROOTONYM®
by Jan & Carey Orr Cook



Study the definition. When you know the missing word, fill in the letter boxes and the sentence blanks.

Answers: Colorful, Smile, Group, Camera.

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Become a photographer

Do you want to make a hobby out of photography? With summer vacations coming up, now is a good time to practice your skills. The Mini Page offers some ideas to get you started.

1. **Hold your camera** or phone steady when you're taking a picture. If you move it, the photo will be blurry.
2. **Compose** your photo before you take it. What is the main interest in your picture? If your subject is too far away, it won't show up well in the picture.
3. **Think** about the purpose of your picture. Is your image trying to tell a story?
4. **Keep your fingers** away from the lens on your camera or phone, and make sure the lens is clean.

Jobs in photography

Have you ever watched a football or basketball game on TV and noticed all the photographers taking pictures? There are many jobs that involve photography:

- **Portrait** photographers take pictures of people.
- **Commercial** photographers make images for advertisements and business publications.
- **Police** photographers take photos of crime scenes and evidence.
- **News** photographers capture images of important events, from wars to press conferences.

Resources



At the library:

- "Photography for Kids: A Fun Guide to Digital Photography" by Michael Ebert and Sandra Abend
- "The Kids' Guide to Digital Photography: How to Shoot, Save, Play With and Print Your Digital Photos" by Jenni Bidner

Mini Jokes



Phil: Why did the cookie go to the hospital?
Phoebe: He felt crumbly!

Eco Note



Since life began on Earth 3.8 billion years ago, as many as 500 million species have evolved. Most species last only a few million years before dying out. Sometimes, however, a great many species die out at once. This is called **mass extinction**. Experts believe this happens when conditions change rapidly — for example, when widespread volcanic eruptions result in climate change. Only a tiny fraction of all the species that have ever existed are alive today.

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For later:

Look through your newspaper for news and sports pictures. Which do you think were the most challenging to take?

Teachers: For standards-based activities to accompany this feature, visit: bit.ly/MPstandards. And follow The Mini Page on Facebook!



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