



Through all of the activity and excitement of the holidays, did your brain wander around to a great idea for a new product or service? You could be a kid inventor!

Kid Inventors' Day (KID) is on Jan. 17 —

the birthday of Benjamin Franklin, a great inventor and statesman who was born 311 years ago. Among other things, Franklin invented the lightning rod and bifocal glasses.

This week, The Mini Page learns all about kid inventors.

**Benjamin Franklin** 

## Protecting an idea

Franklin never patented, or legally protected, his inventions. He thought people should freely share their ideas.

But most people apply for a patent when they invent something. A patent means that no one else may make or sell the same invention. With a patent, the inventor gets all the credit for his or her idea, and all the money from selling it. The U.S. Patent and Trademark Office has issued about 8 million patents since the first one in 1790!

## Why be an inventor?

Experts say that thinking through the process of inventing something can help kids:

- be more creative
- learn problem-solving
- learn to take educated risks

- learn to communicate better
- learn to collaborate, or work with others
- learn about entrepreneurship, or running a business.

Inventing is a way for kids to change and shape the way the world works for them personally, as well as globally.

## Getting ideas

Children might wonder about how to get an idea for an invention. Experts say a good place



about what inspired other inventors. Then think about a challenge in your own life.

For example, imagine your shoelace has broken right before it's time to leave for school, and you don't have any extras at home. How would you solve this problem? (Write down your ideas and share them with classmates.)

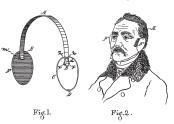
### Inspiration all around

Experts also suggest looking at nature for ideas to solve problems. For example, a research institute in Germany looked at sharkskin and the way tiny scale-like ridges reduce drag in the water as the shark swims. Researchers developed a paint that mimics, or copies, the ridges in sharkskin to increase energy efficiency for airplanes and ships. This way of looking at invention is called biomimicry (bye-oh-MIM-ick-ree). The Mini Page® © 2018 Andrew

## Meet some kid inventors

• Chester Greenwood of Farmington,

Maine, had a problem. His ears got really cold when he went iceskating. So Chester, just



14 years old, invented earmuffs: a springy band that fit over the head, with beaver fur and velvet "muffs" to shield the ears from cold temperatures. Four years later, in 1877, Chester received a patent for his "ear protectors."

• Philo T. Farnsworth came up with the idea of an "image dissector," or video camera tube, in 1921, when he was just

14. He got the idea of splitting an image into lines from plowing fields



at his family's farm in Utah.

He showed a working model in 1927 and received a patent for his television in 1930. When RCA tried to strike down Farnsworth's patent, his high school chemistry teacher showed a sketch Farnsworth had made in 1922, proving that he was the first inventor of television.



### On the Web:

bit.ly/MPpatents

### At the library:

- "Rosie Revere, Engineer" and "Ada Twist, Scientist" by Andrea Beaty
- "Brainstorm! The Stories of Twenty American Kid Inventors" by Tom Tucker

# Try 'n' Find

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

**BIOMIMICRY**, COLLABORATE, COMMUNICATE

ZTCUDORPOCRED MELBORPATENT 1 SCNGETAROBALLO





Fred: What runs faster. cold or hot? Fiona: Hot, because you can catch a cold!



to start is reading

CREATIVE, CREDIT, FRANKLIN, IDEA, INSPIRATION, INVENTOR, Y F MODEL, OFFICE, PATENT, PROBLEM, PRODUCT, SERVICE, SOLVE, TRADEMARK.

#### K N A R F H B K W T T Ν ΙL Υ FMEVITAERCGYNL KBIOMIM CRYE A O INSPIRAT IONVD FETACINUMMOCENO SOLVESERVICETIM TRADEMARKIDEADD

1/2 cup prepared basil

salt and black pepper

2 tablespoons grated

Parmesan cheese

pesto

## **Cook's Corner**

## Spaghetti Squash With Pesto

### You'll need:

- 1 spaghetti squash, about 2 pounds, halved lengthwise
- 2 tablespoons pine nuts
- 1 (14-ounce) can diced fire-roasted tomatoes, drained
- What to do:
- 1. Place squash cut side down in microwave-safe baking dish. Add about 1 inch water to dish. Cover with paper towel and cook on HIGH for 5 to 7 minutes until flesh is tender.
- 2. Place pine nuts in a small dry skillet over medium heat. Cook for 3 minutes, shaking frequently, until nuts are golden brown.
- 3. Scoop flesh from squash and transfer to large bowl. Add tomatoes and pesto and mix well. Season with salt and pepper. Arrange on platter and top with Parmesan cheese and pine nuts. Serves 4.

Adapted from "The Robin Takes 5 Cookbook for Busy Families" with permission from Andrews McMeel Publishing (andrews)

# **7 Little Words for Kids**

Use the letters in the boxes to make a word with the same meaning as the clue. The numbers in parentheses represent the number of letters in the solution. Each letter combination can be used only once, but all letter combinations will be necessary to complete the puzzle.



NG

WH

BR

ER

멸

YEA

DI

ALE

FAST

with this recipe.

help

adult's

an

need

/ou'll

- 1. it makes bread dough rise (5) \_\_\_\_\_
- 2. firecracker sound (4)
- 3. dried grape (6)\_\_\_\_\_
- 4. large sea creature (5) \_\_\_\_\_
- 5. people watching a show (8)\_\_\_\_\_
- 6. first meal of the day (9)\_\_\_\_\_
- 7. shake in the cold (6)

Answers: yeast, bang, raisin, whale, audience, breaktast, shiver.

RAIS

AU

BA

**ENCE SHIV** 

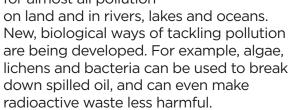
ST

EAK

IN

## Eco Note

Humans are responsible for almost all pollution



adapted with permission from "50 Things You Should Know About the Environment" by Jen Green. © QEB Publishing Inc.

# Thank You



The Mini Page thanks

Alaina Rutledge, director of education for the National Inventors Hall of Fame, for help with this issue.

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

Books from The Mini Page are wonderful resources and make great gifts! See all of our Mini Page products at MiniPageBooks.com, or call 844-426-1256 for more information. Mail payment to: Andrews McMeel Universal, Mini Page Books, 1130 Walnut, Kansas City, MO 64106. Include \$4.00 shipping and handling per order.

