

Fetch! club Membership cards

To make membership cards, photocopy this page. (Make color copies, if possible.) Then cut out the cards and fold them in half on the dotted line. Punch out the hole and attach a string so kids can wear their cards during club meetings.

At the end of the meeting, give kids an attendance sticker to put in the grid on the back of the card. Choose your own stickers or use 3/4-inch round stickers, available at office supply stores. Have kids write the FETCH! points earned during that

session on the line below the sticker. Membership cards can get lost easily. Establish a place where kids can find them at the start of each meeting and return them when it's over.



		
Team Member _____		
Favorite Dog _____		
TM/© 2006, 2008 WGBH Educational Foundation.		
Points: _____ PLACE STICKER HERE	Points: _____ PLACE STICKER HERE	Points: _____ PLACE STICKER HERE
Points: _____ PLACE STICKER HERE	Points: _____ PLACE STICKER HERE	Points: _____ PLACE STICKER HERE
challenge • scorecard		

		
Team Member _____		
Favorite Dog _____		
TM/© 2006, 2008 WGBH Educational Foundation.		
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Points: _____ PLACE STICKER HERE	Points: _____ PLACE STICKER HERE	Points: _____ PLACE STICKER HERE
challenge • scorecard		

solve a Problem



Fetch!
with Ruff
Ruffman™

**Identify
Problem**

**Brainstorm
solutions**

**Make
Predictions**

**Test
idea**

Revise

**share
results**

**Ask new
questions**

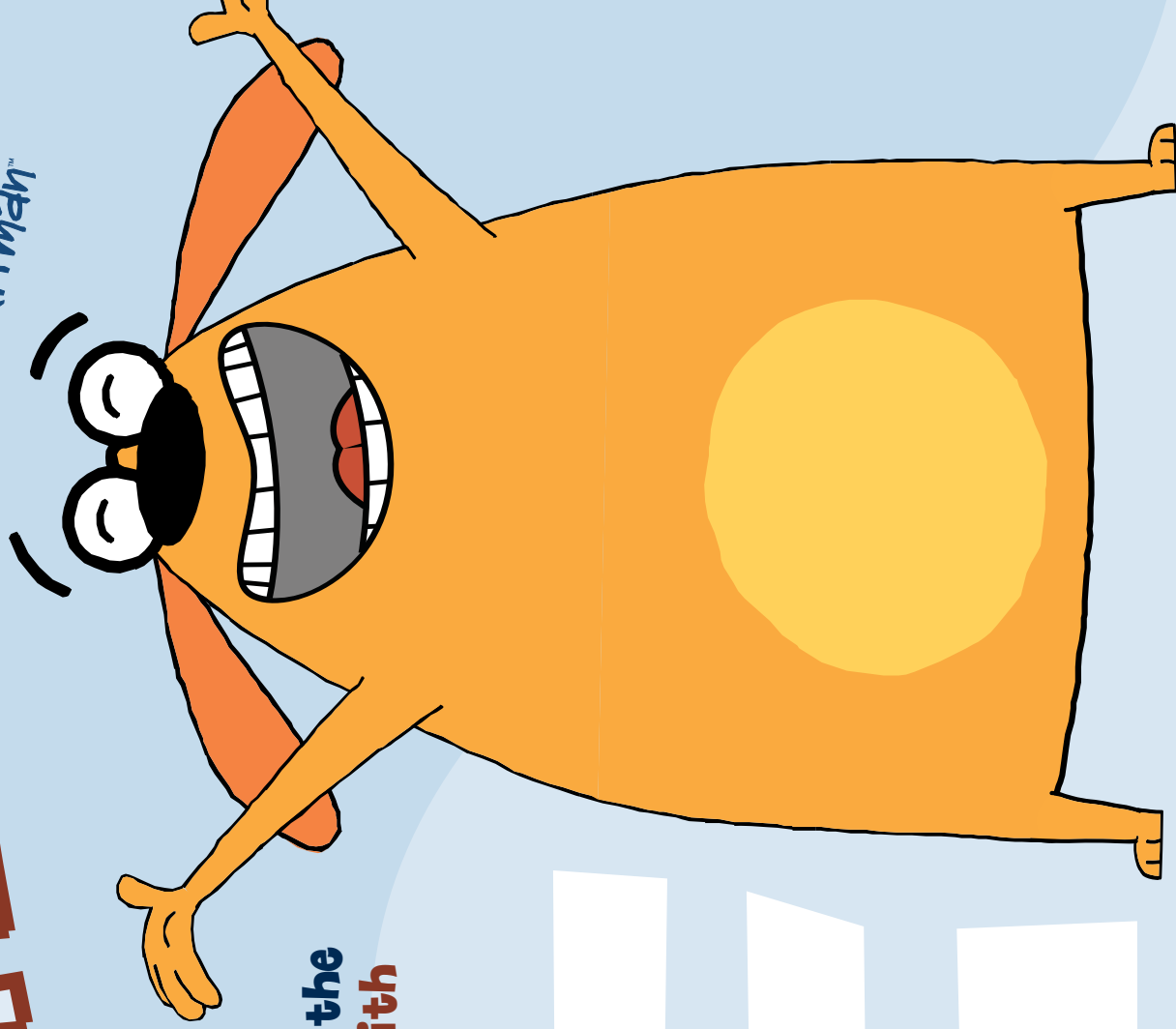


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COOO FETCH!

FETCH!
with **Ruff Ruffman™**



Join us for fun
science activities,
just like those on the
PBS show **FETCH! with
Ruff Ruffman!**

Who?

When?

Where?

More Info



Watch **FETCH!** on PBS KIDS GO!
(check local listings) and visit the
FETCH! Web site at pbskidsgo.org/fetch



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Tear here



FETCH!

with Ruff Ruffman™

congratulates

For doing a **fantastic** job on your challenges at the **Fetch! Club**.
You're **talented, brilliant, and totally awesome!!!**

Ruff 

Your Fabulous Canine Host



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Cooperative

Books and Web sites

ToY chemistry

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Books

Amazing Kitchen Chemistry Projects You Can Build Yourself (2008)

Cynthia Light Brown

Explore chemistry through wild experiments, crazy cooking, and kooky creations with everyday household materials.

Cool Chemistry Concoctions: 50 Formulas that Fizz, Foam, Splatter & Ooze (2007)

Joe Rhatigan and Veronika Alice Gunter

Learn about chemistry while making slobbering soda and bubbles that won't burst.

Fizz, Bubble & Flash! Element Explorations and Atom Adventures for Hands-On Science Fun! (2003)

Anita Brandolini

Discover how elements are a part of your everyday life with hands-on, high-energy activities.

Web

National Geographic: Polymers, They're Everywhere

nationalgeographic.com/resources/ngo/education/plastics/

Find out about polymers in your world.

Polymer Science Learning Center: The Kids' Macrogalleria

pslc.ws/macrog/kidsmac/index.htm

Enter the big wide world of polymers.

Race for survival

(page 9)

Books

Animal Defenses: How Animals Protect Themselves (1998)

Etta Kaner

Read about the different ways animals protect themselves.

Animal Disguises (2007)

Belinda Weber

Discover how animals blend in with their environment by mimicking objects found in nature, playing tricks on their predators, and changing shape.

What are Camouflage and Mimicry? (2001)

Bobbie Kalman

Examine animals that use unique colorization and patterns to hide.

Web

How Stuff Works: Animal Camouflage Pictures

animals.howstuffworks.com/animal-facts/animal-camouflage-pictures.htm

Review a gallery of images of different types of animal camouflage.

National Geographic: Creature Features

kids.nationalgeographic.com/Animals/CreatureFeature

Explore wild animals and the habitats they live in.

Nova Online: Leopards of the Night

pbs.org/wgbh/nova/leopards/seeinggame.html

Match each animal to its camouflage strategy.

Operation ESPionage

(page 13)

Books

Crime-Solving Science Projects: Forensic Science Experiments (2005)

Kenneth G. Rainis

Understand the role science plays in solving crimes.

Spy Science: 40 Secret-Sleuthing, Code-Cracking, Spy-Catching Activities for Kids (1996)

Jim Wiese

Explore how spies use science and learn tricks of the trade.

Web

CryptoKids: America's Future Codemakers & Codebreakers

www.nsa.gov/kids/home.cfm

Learn about cryptology—the making and breaking of codes.

Dragonfly TV: Forensics

pbskids.org/dragonflytv/show/forensics.html

Help investigate a crime.

What Gives?

(page 17)

Books

Bridges (Building Amazing Structures Series, 2005)

Chris Oxlade

Examine famous bridges in history and plans for new bridges designed to link continents together.

Bridges Are to Cross (1998)

Philemon Sturges

Get a birds-eye view of the most famous and majestic bridges in the world.

Bridges! Amazing Structures to Design, Build & Test (1999)

Carol A. Johmann and Elizabeth J. Rieth

See bridges from around the world, then design, build, and test your own.

The Brooklyn Bridge (2006)

Elizabeth Mann

Read about this famous suspension bridge that took 29 years to build.

The Golden Gate Bridge (Symbols, Landmarks, and Monuments Series, 2005)

Tamara L. Britton

Discover how San Francisco's Golden Gate Bridge was built.

Web

Building Big: All About Bridges

pbs.org/wgbh/buildingbig/bridge/index.html

Check out bridges of all types—beam, truss, arch, and suspension.



Whodunit

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Books

Detective Science: 40 Crime-Solving, Case-Breaking, Crook-Catching Activities for Kids (1996)

Jim Wiese

See how detectives and forensic scientists use science to solve crimes.

Web

Central Intelligence Agency: Kids' Page

<https://www.cia.gov/kids-page/index.html>

Get an inside look at the CIA.

Federal Bureau of Investigation: Kids' Page

fbi.gov/fbikids.htm

Find out how FBI special agents and analysts investigate cases.

History Detectives

pbskids.org/historydetectives/about.html

Sleuth your way through time and solve historical mysteries.

Canine House of Cards

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Books

Building (Make it Work! Science Series, 2000)

Andrew Haslam

Learn about different kinds of structures from skyscrapers to igloos through hands-on experiments.

Skyscrapers! Super Structures to Design & Build (2001)

Carol A. Johmann

Read about the history and structure of the world's tallest buildings.

Web

Building Big: The Labs

pbs.org/wgbh/buildingbig/lab/index.html

Explore forces, materials, loads, and shapes in these interactive labs.

Science Activities

Books

Smash It! Crash It! Launch It! 50 Mind-Blowing, Eye-Popping Science Experiments (2006)

Rain Newcomb and Bobby Mercer

Make marshmallow catapults, potato popguns, and water-balloon launchers and learn the science behind what makes them work.

Flash! Bang! Pop! Fizz! Exciting Science for Curious Minds (2000)

Janet Parks Chahrour

Learn fundamentals of physical science at home with 25 fun activities.

The Ultimate Book of Kid Concoctions 2 (2006)

John E. Thomas and Danita Thomas

Create over 65 wild, wacky, and creative concoctions with household ingredients.

Science Careers

Books

Career Ideas for Kids Who Like Science (2007)

Diane Lindsey Reeves and Lindsey Clasen

Connect your interests and skills to a career in science.

Web

American Physiological Society: Careers in Life Science

the-aps.org/education/k-12misc/careers.htm

Find links to investigate a range of careers in life sciences.

Minerals Management Service: Careers in Science

www.gomr.mms.gov/homepg/lagniapp/careerpg.html

Read about ten types of scientists who work to protect the environment.

U.S. Department of Agriculture: Want to be a Scientist?

ars.usda.gov/is/kids/scientists/scientistsframe2.htm

Check out 19 different science jobs.



For more great science activities, check out these other PBS Resources.



Ages 3-6

Celebrate the curiosity and adventure of young children with simple science exploration.

peepandthebigwideworld.org



Ages 3-6

Discover science, engineering, and math in the world around us.

pbskids.org/curiousgeorge



Ages 8-11

Try ZOOM's fun science and engineering activities, featuring ideas sent in by real kids.

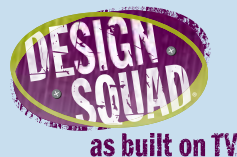
pbskids.org/zoom



Ages 9-12

Investigate environmental issues and take action to protect the planet.

pbskids.org/greens



Ages 9-13

Unleash your kids' ingenuity and get them thinking like engineers through hands-on activities.

pbskids.org/designsquad



Ages 11 and up

Dig deep into science topics with classroom-ready resources from the most-watched science television series on PBS.

pbs.org/wgbh/nova



Ages 11 and up

Find out the latest research and meet intriguing personalities in science and technology.

pbs.org/wgbh/nova/sciencenow



Ages 14-18

Meet inspiring women engineers who make a real difference in the world. Find out if engineering might be your dream job.

engineeryourlife.org



Educators

Use this media-rich library of teaching resources to make concepts come alive in engaging and interactive ways.

teachersdomain.org