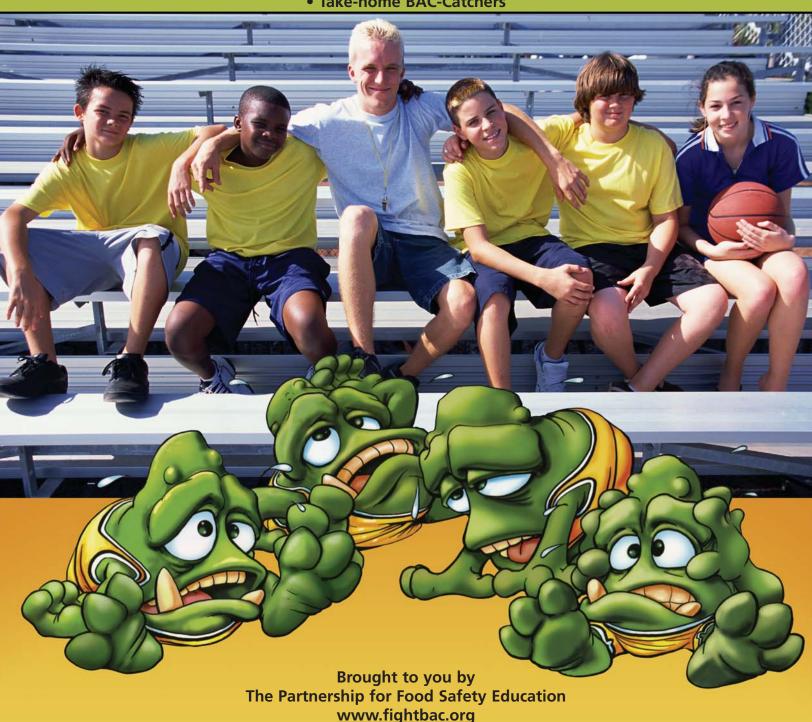
Your Game Plan for Food Safety Teacher's Activity and Experiment Guide

A Fight BAC!® Food Safety Education Program For 4th, 5th and 6th Grade Classrooms

Program Includes:

- DVD
- Posters
- Experiments
 - Activities
- Home Survey
- Take-home BAC-Catchers





www.fightbac.org

Welcome to Your Game Plan for Food Safety

Foodborne Illness Is Serious!

More and more, foodborne illness is in the news. According to The Centers for Disease Control and Prevention, foodborne illnesses in the United States affect millions of people and cause thousands of deaths every year. An estimated 800,000 illnesses occur in children under the age of 10.

Teaching Food Safety Is Important...

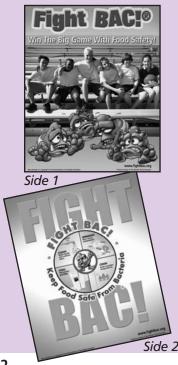
The good news is that there are many things children and families can do to help ensure that their food is safe to eat — at home, at school and even when eating out. All they need is a basic awareness of proper food handling, cleanliness practices, and the importance of temperature in controlling/killing bacteria. And as a teacher, you play a big role in helping to "spread the word . . not the germs!" That's where Your Game Plan for Food Safety fits in. As part of *The Partnership for Food Safety Education's* nationwide *Fight BAC!* Campaign, this program is specially designed for use in fourth, fifth and sixth grade classrooms just like yours.

... and It's Easy!

Your Game Plan for Food Safety helps you teach food safety in a way that is both easy for you and exciting for your students. Using the inquiry approach to learning, the program inspires children to discover the science behind food safety as they experiment . . . investigate . . . and explore.

Let's Get Started!





Using the Program Components



Capture the imagination of your students with this new look at an age-old favorite! Students will love sharing their food safety knowledge with friends and family.

Outcome:

Students use the color BAC-Catcher as reinforcement of in-class activities and food safety messages. A black-and-white reproducible master is also included on page 15 for students to use as a template for developing their own versions.

Getting Started:

- Distribute one color BAC-catcher to each child. Challenge them to use it to intrigue and educate their friends and family.
 Remind them that it's up to them to "spread the word . . . not the germs!"
- As a follow up activity, photocopy the black-and-white version and challenge students to write their own questions and answers about food safety. This is an excellent assessment exercise to use as a checkpoint for their growing food safety knowledge.



POSTER

Component

There's an important new program in town—and with this colorful poster, students will know it! A 2 sided poster is provided in the kit and is sure to get the kids asking questions.

Outcomes:

- Side 1 announces the arrival of this program and lists the four Action Messages students will be learning about.
- Side 2 provides a more in-depth display of the four Action Messages.

Getting Started:

- Post Side 1 in a visible spot the main hallway, the cafeteria — to get kids talking about Fighting BAC!
- The poster also serves as a great movie poster announcing special showings of the DVD.
- Once students are involved in the program, reverse the poster to serve as a reinforcement of the four Action Messages.



FBI (FOODBORNE ILLNESS)

Component

Get your students on the FBI team with this inquiry-based investigation!

Outcome:

Students apply their food safety knowledge to a "real life" picnic scenario.

Getting Started:

- Photocopy the reproducible master on pages 16-17 (front and back) and distribute one to each student.
- This activity makes an excellent assessment exercise, allowing students to process what they've learned as they investigate the "crime scene" of a potential foodborne illness. They become part of the FBI Team!
- Try letting groups of students develop and perform mini-skits of the incident.
 Encourage them to incorporate dialogue and invent their own props.



HOME FOOD SAFETY SURVEY

Component

Now the real investigation begins! Deputize your students as "Food Safety Investigators" and send them home with this family-based activity.

Outcome:

This activity is a great "before" and "after" exercise. Students take their "surveys" home to complete with the family. Completed surveys are returned to class and tallied in a variety of ways.

Getting Started:

- Photocopy the reproducible master on pages 18-19 (front and back) and distribute one to each student. Give a due date that allows several days for families to complete their investigation.
- Challenge students to include up to three other family members (in addition to themselves) to survey their food safety behaviors. Encourage them to compare outcomes together at home.
- Distribute one copy as you begin teaching the program, and another at the end.
- Have students develop charts, graphs or other visuals to compare and contrast home food survey "before" and "after" results.



Try letting your students choose from among these engaging follow up activities. They'll test their own knowledge of food safety and have fun at the same time. There's something for everyone, whatever their learning styles!

Outcome:

Pages 21 through 23 include self-contained activities covering a wide variety of food safety learnings. Activities are provided in three categories from which you and your students may choose:

- Across the Curriculum: integrated within your classroom
- Around Your School: reaching out to other classrooms and grades
- **Around Your Community:** spreading the message outside the school

Getting Started:

- Use the various mini-activities as integrated follow up to the learnings of the program.
- Encourage teams of students to choose and conduct the activities they wish to undertake.
- Let the children know that they are now food safety investigators in the classroom... at home... in the school... and in the community!

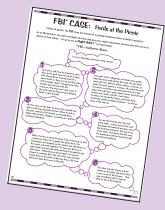
TEACHER WEB PAGE

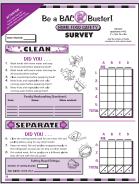
You're invited to Fight BAC!® On-line! This informative web page, located at the main www.fightbac.org web site, is designed especially for teachers. You are invited to email your own experiences with the program for possible inclusion in future postings.

The Fight BAC!® Teacher Web Page provides printable program materials and will be updated to include additional ideas and experiments, teacher tips and other comments, and information for educators who are using the program. It is a special page attached to the general www.fightbac.org web site.

Bookmark it!

www.fightbac.org





The Case of the Uninvited Guests

Try showing the DVD all the way through the first time. Then, go back and work through each segment, using the scenes and learnings of the DVD to foster in-class discussion Idea—starters, called "Class Actions," are included with each segment.



DVD / Video

Component

Running time: 19:45

The DVD serves as the program "kick-off" to introduce food safety to your students in an intriguing, engaging way. Students will follow the trail of two school newspaper reporters who have been investigating a mysterious outbreak of . . . foodborne illness!

1

Investigation Begins

- "Stop the Presses!" exclaims Tyler, one of the star reporters for the Washburn Word School Newspaper.
- It seems that after a recent party for the girls' and boys' basketball teams, several party guests became ill — including some key team players and the coach. And the championship finals were just days away!
- As the video opens, Tyler and Brittany return to the newspaper office and begin to tell Andy, the student art director, and Ms. Morgan, the advisor, what they've discovered about the mysterious illness.

Class Actions

What have students seen in the news about foodborne illness? Have them conduct on-line research to find out about foodborne illness in the news.

2

The Illness . . . uncovered

- The reporters tell about the "symptoms" that struck: stomach cramps, vomiting and (yuck!) diarrhea. Luckily the partygoers were only sick for a couple of days — but it could have been worse.
- Brittany and Tyler point out that foodborne illness comes from bad bacteria in food. It all started with an end-of-season party two basketball-playing twins, Kira and Kyle, decide to host at their home using money earned at a team "car wash" . . .
- In a flashback, we see the kids grocery shopping and making some mistakes in unloading the groceries: like allowing crosscontamination from meat and poultry in the refrigerator, and forgetting to refrigerate some items.
- Tyler and Brittany discuss the ways food is kept safe before purchase, and the importance of consumers doing their part after purchase.

Class Actions

Have students investigate the types of precautions used to keep foods safe before consumers buy them.

3

Exploring the First "Mistakes"

- As Andy expresses confusion about "crosscontamination," the reporters explain it in greater detail. They also discuss lack of refrigeration of perishable foods.
- Brittany and Tyler emphasize that throughout the investigation they discovered many things that could have contributed to possible foodborne illness but it's hard to say exactly which behavior caused the problem!

Class Actions

Discuss the various mistakes made by the kids up to this point. Have students brainstorm the ways cross-contamination could happen.



Consulting the Experts

- Tyler and Brittany conducted key interviews with experts right in their own school the school nurse and the food service director.
- Ms. Yung, the school nurse, discussed how bacteria are transmitted when unwashed hands handle food. She reminded the reporters that not all bacteria are bad.

Class Actions

Have students research different types of bacteria. Assign a "good bacteria" team and a "bad bacteria" team. Encourage a pair of "reporters" to interview the school nurse.

- Ms. Gomez, the food service director, revealed the importance of safe handling during food preparation, especially handwashing, refrigeration, and clean counters. She highlighted the four key actions: Clean, Separate, Chill and Cook.
- Ms. Gomez also sent the reporters to the Fight BAC!® web site for more information.

Class Actions

Have students research food safety at the www.fightbac.org website. Make sure students notice the Wall Poster in the DVD featuring the four key actions:

Clean, Separate, Chill and Cook.

5 Reenacting the Party

- The reporters are ready to recap the party, which included up to 10 mistakes — and 10 possibilities for the "culprit" that caused the outbreak of foodborne illness.
- The food safety mistakes are seen:

CLEAN

- **1.** Failure to wash hands before handling food.
- A basketball rolls to the feet of one of the kids —
 who picks it up, throws it back, and goes right on
 handling food.
- **3.** Cheese is sliced on an unwashed countertop.
- **4.** Some fruit still in store-packaging (unwashed) is taken from the refrigerator and eaten without being washed.

SEPARATE

- **5.** Juices from meat could spill onto fruits in refrigerator storage.
- **6.** Cross-contamination of vegetables and raw meat on same cutting board without washing thoroughly between uses.
- 7. Using a kitchen towel to mop up meat juices, and then using the same towel to dry off a platter.
- 8. Same plate used for raw and cooked poultry.

CHILL

9. Serving the buffalo wings that had been left unrefrigerated on top of the refrigerator for several hours.

СООК

- **10.** Hamburger and poultry not cooked to safe temperatures.
- Brittany and Tyler reveal that each of the "mistakes" happened in one of the four key action categories.
- The reporters reiterate that any one or any combination — of the mistakes could have caused partygoers to become ill.

Class Actions

Have "recorders" note the food safety mistakes as they occur; afterward, have teams classify each mistake into the related action category: clean, chill, separate or cook. Then, challenge them to brainstorm what the kids in the video should have done in each case. (See Recap section below.) Hint: Remind students to listen for the "dramatic sound effects" that help highlight the food safety mistakes.

6 Wrapping up the Article

- Brittany and Tyler point out that one of the tricky things about foodborne illness is that it can happen differently to different people, plus it can vary depending on the type of bacteria.
- Sometimes it happens quickly; sometimes it can take a couple of days. That's why

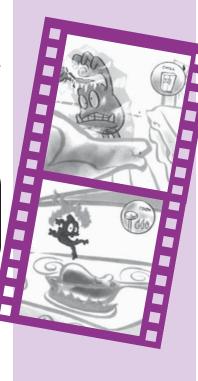
- people often don't realize that foodborne illness is the source of their symptoms.
- Luckily, in the case of Washburn School, no one became too ill — and all of the stricken basketball-team members recovered in time to clinch the championship games!
- The editorial group decides that a schoolwide program on Food Safety Awareness is needed — and they'll get the school nurse and food service director to help!

Class Actions

Challenge students to plan a food safety awareness campaign at school. Use the nurse and food service director as resources. Set up a corner of the computer lab with a special Fight BAC!" sign, encouraging Internet surfers to visit the Fight BAC!" web site.

7 Video Trailer: The "Recap"

 As reinforcement of the lessons, the DVD includes a "behind the scenes recap" section at the end, with cast members showing the food safety mistakes that happened before and during the party, and discussing the "should haves."



The "recap" messages are:

CLEAN

- **1-2.** Always wash hands thoroughly before and after handling food especially after using the bathroom or touching other things!
- **3.** Clean counters and other surfaces before preparing food.
- **4.** Always rinse fruits and vegetables before preparing and eating them.

SEPARATE

- **5.** Store meat, poultry and fish on a separate dish in the refrigerator. Don't let the juices drip on other foods!
- **6.** Be sure to wash cutting boards with hot soapy water if you used them to cut meats, poultry or fish, before cutting vegetables or fruits.
- **7.** Never use a "contaminated" towel without laundering it first. Better yet, use paper towels, so the bacteria go into the garbage!
- **8.** Use a clean platter for cooked meat and poultry. Don't put them back on the platter with the raw juices!

CHILL

9. Food should be refrigerated immediately upon returning from the store. (Leftovers should be, too.) Food should not be left unrefrigerated for more than two hours. If for any reason the period exceeds two hours, it's safer to get rid of the food. "When in doubt . . . throw it out!"

COOK

10. Use a food thermometer to check temperature of meat, poultry & fish. (For proper use, check thermometer package directions.)

Tips & **Techniques**

Work in Teams

Have student groups choose and perform different experiments. Groups then share their results with the rest of the class.

Skill-Building: Writing a Lab Report

Have students apply the scientific process to their experiences by writing formal lab reports:

- Problem
- Hypotheses
- Materials
- Procedure
- Observations
- Conclusion
- Questions for further investigation

Keep Students on Track

As you know, kids love talking about bacteria and germs! Remember to keep the discussion focused on bacteria as it relates to food safety.



EXPERIMENTS

Component

Turn your classroom into a "food safety science lab!" The interactive experiments on the following pages were teacher-developed and kid-tested in classrooms just like yours.

Overview:

In each of the hands-on experiments, students learn by:

- Sharing results of experimentation.
- Evaluating implications of their observations.
- Drawing conclusions about food safety.

Time Needed:

The experiments are designed to be flexible. Depending on your available class time, you may choose to do some or all of the experiments . . . in part or in full . . . with full class participation or as teacher demonstrations. It's up to you!

Each of the experiments can generally be performed within one class period. However, Experiment 2, "There's More Than Meets the Eye," takes a full week to see final visual results.



Soapy Solutions

Outcome:

The oil on hands simulates the natural oils in your skin to which bacteria might cling. The soap and the rubbing action are needed to remove the oils and the bacteria that the cinnamon simulates. Warm water makes it more comfortable to wash for a longer period of time. Washing with soap – and the act of rubbing briskly for 20 seconds — will remove bacteria most effectively.

Integrated Learning:

Science learning:

- Hypothesize predict.
- Use observation techniques.

Social Studies:

• Research the origin of soap.

Technology:

- Search at the Fight BAC!® web site for the different types of bacteria.
- Use the internet to research the availability of soap and clean water in a global society.

There's More Than Meets The Eye

Outcome:

After one week, the apple in the "Hands Unwashed" jar should show signs of microorganism growing. The microorganism grew because it was transferred to the apple by dirty hands. The apple in the "Hands Washed" jar should appear relatively free of visible microorganism growth.

Integrated Learning:

Science learning:

- Predict.
- Investigate proper conditions for bacterial growth.
- Watch microorganism growth.
- Observe and record.

Mathematics:

- · Measurement of different variables.
- Use fractions when cutting apples: 1/2, 1/4, 1/8, 1/16.
- Graphing data collected over time.
- Measurement of time and temperature.

Language arts:

Reading to research microorganism growth.

Technology:

 Use word processing and/or computer graphing to develop a lab report.

Optional follow up:

 Adapt this experiment using six additional jars two jars at each of these temperatures: $40^{\circ}\text{F}/4^{\circ}\text{C}$. .. 70°F/21°C ... 90°F/32°C.

Science note: This experiment shows microorganism growth such as spoilage bacteria, fungus or mold. It is likely that what is growing on the apple is not pathogenic bacteria.



Safely Separate

Outcomes:

This experiment simulates how easy it can be to cross-contaminate food when storing and preparing it. Sponges and paint are used to show how bacteria can spread from raw meat, fish or poultry to cooked foods or vegetables. Remind students that bacteria on a cutting board can spread to other foods, too — like a bagel.

- Cooked meat, fish or poultry should never be placed back on the same (unwashed) plate that was used for the raw meat, fish or poultry.
- · Every cutting board must be thoroughly washed between uses, in a dishwasher or with hot soapy water*. This is especially important when the same cutting board has been used for raw meat, fish or poultry and is going to be used for vegetables that will be eaten raw.
- *Hot water should be used with caution.

Integrated Learning:

Science learning:

- Use observation techniques.
- Use data collected to predict correct future

Mathematics:

Problem solving.

Language arts:

 Write expository essay stressing reasons it is important to separate food:

Paragraph 1 — write focus statement

Paragraph 2 — reason 1 with supporting details Paragraph 3 — reason 2 with supporting details

Paragraph 4 — reason 3 with supporting details

Paragraph 5 — conclusion

Technology:

Use web site to research types of bacteria.



Proper Patties

Outcome:

For hamburger to be safe to eat, it must be cooked to an internal temperature of 160°F/71°C. This is the only way to make sure that all harmful bacteria that might be present have been killed. The color of the meat is *not* a reliable indicator that the meat has reached a temperature high enough to destroy harmful bacteria such as *E-coli 0157:H7*. Use a thermometer!

- Digital food thermometers and dial food thermometers have different usage instructions. Be sure to check the label!
- Don't confuse instant-read food thermometers with dial roasting thermometers. The dial kind is used in the oven; it stays in the meat or poultry the whole time it's cooking. The instant-read is used after the meat is taken out of the oven or off the heat. Again check the label!

Integrated Learning:

Science learning:

Observe, record, create data.

Mathematics:

- Measure using time and different variables like ¹/₄" from edge, center, 160°F/71°C.
- Graph data collected over time.

Language arts:

Conduct oral and written share of experiments and results.

Technology:

 Learn to use a food thermometer properly and research the different types of food thermometers.

Social Studies:

 Research what foodborne illness you might get if the hamburger or chicken are not cooked to proper temperatures and find an example in news stories of people contracting this illness from eating undercooked hamburger or chicken.

Optional follow up:

Research what bacteria cells look like.

Be a Good Eqq!

Outcome

Scientists estimate that 1 in 20,000 eggs may contain harmful bacteria. The bacteria will be killed with thorough cooking. Eggs should be cooked until the yolks and whites are firm. Don't use recipes in which eggs remain raw or only partially cooked.

Integrated Learnings:

Science learning:

Observe, predict, hypothesize.

Mathematics

- Develop system to chart data collected.
- Measure time and temperature and make comparisons.

Language arts:

 Participate in oral and written share of experiment results.

Technology:

 Research safe food-cooking temperatures for eggs, meat, poultry and fish.

MANAGHILL MANAMA

Cooling Counts!

Outcome:

The temperature of the water in the shallow container will cool more quickly than in the tall (large or deep) container. This simulates how important it is to store leftovers in shallow containers in the refrigerator for quickest cooling.

If food is left in the danger zone (temperatures between 40°F/4°C and 140°F/60°C), bacteria multiply more quickly.

Integrated Learnings:

Science learning:

- Use scientific method: predict, hypothesize, observe, conclude
- Evaluate learning to determine which containers are best for leftovers.
- Measure temperature over time.
- Use data collected to predict best leftover storage system.

Mathematics:

- Measure different temperatures.
- Graph collected data.

Language arts:

 Write the scientific reason why water cooled faster in different shaped containers. Include discussion of surface area in conclusion statement.

Social Studies:

 Investigate methods of storage in countries that use different types of technology (e.g., drying meat, irradiation).

Optional follow up

 Design fictional storage containers for different types of leftovers.

Yeast Balloon Blow-up

Outcome:

The yeast microorganism is used because it has growth properties that are similar to bacteria.

The yeast solution placed in the cold water bath simulates what happens to bacteria when it is chilled. It will not grow.

The yeast solution in the warm water bath simulates what happens to bacteria when left out, particularly in a warm place. This yeast will thrive within the danger zone (see thermometer on page 13) and will grow. As the yeast grows it bubbles, creates gas and causes the balloon to inflate. Bacteria also thrive on sugar so the sugar solution makes the growth more rapid. Take advantage of this opportunity to talk about "good bacteria" with your students.

Integrated Learnings:

Science learning:

- Observe bacteria growth.
- Evaluate why it's so important to avoid bacterial growth in food.

Mathematics:

- Compare degrees in Fahrenheit and Celsius.
- Measure liquid in milliliters, temperature in Fahrenheit and Celsius.

Language arts:

 Participate in oral and written share of observations and conclusions.

FOOD NOTES:

- Several experiments use food products for demonstration purposes. Remind students that these "materials" are not to be eaten.
- Remind students to compost leftover food whenever possible.



QUESTION

What is the most effective way to remove bacteria from your hands?

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Check to make sure there is handwashing soap at every sink in your home and at school.

EXPERIMENT

SOAPY SOLUTIONS

MATERIALS NEEDED:

- Cooking oil
- Cinnamon
- Access to sink to wash hands
- Measuring spoons (teaspoon and tablespoon)

GETTING READY

Ask three classmates to volunteer for the experiment.

PROCEDURE

For the student volunteers:

- 1. Rub 1 tablespoon of cooking oil all over your hands until completely coated. Sprinkle 1 teaspoon of cinnamon on hands and rub it around until it's evenly distributed. The cinnamon will be like bacteria. It's all over!
- 2. Wash hands as follows, rubbing them briskly for 20 seconds:
 - Student #1: wash hands with cold water and no soap
 - Student #2: wash hands with warm water and no soap
 - Student #3: wash hands with warm water and soap

For the rest of the class:

- 1. Observe the three handwashing methods.
- 2. Record the results.

MY OBSERVATIONS

MY CONCLUSIONS

- The method of handwashing that removed the most "bacteria" was:
- The method that removed the least "bacteria" was:
- Illustrate how the hands of Students 1, 2 and 3 looked after washing.
- I can remove bacteria from my hands by:
- If I used only cold water and no soap to wash, this is what might happen:
- Why does the . . .
 - Warm water help?
 - Soap?
 - Rubbing?

TELL YOUR FAMILY ...

- Encourage all family members to wash hands with warm water and soap for at least 20 seconds before and after handling food!
- Teach your little brother or sister about handwashing in a fun way! Go to www.scrubclub.org

EXPERIMENT

THERE'S MORE THAN MEETS THE EYE

MATERIALS NEEDED:

- Two small Delicious apples, washed in advance (but not by the person cutting the apples)
- Potato peeler
- Small, clean knife
- Cutting board
- Two sterilized jars (see "tip" at left) with screw-top lids
- Masking tape or gummed labels
- Felt-tip markers

GETTING READY

Label the jars:

- Jar 1 Washed Hands
- Jar 2 Unwashed Hands

Choose a class volunteer to perform the experiment. Make sure his/her hands haven't been washed in several hours!

PROCEDURE

1. Without washing hands, peel one apple and cut it in half on the cutting board.

For the Class Volunteer:

- 2. Place one half of the apple in the jar labeled "Unwashed Hands." Screw the lid on tightly, compost the remaining apple.
- 3. Wash your hands thoroughly with soap and warm water for 20 seconds. Now wash the potato peeler, knife and cutting board with soap and warm water.
- 4. Peel the second apple and cut it in half.
- **5.** Place one half of the apple in the jar labeled "Washed Hands." Screw the lid on tightly and compost the remaining apple.
- 6. Place jars in a warm place.

For the Class:

7. Observe the jars once daily for a week and record your observations.

MY OBSERVATIONS

MY CONCLUSIONS

- **Describe:** Do the apples look the same? If not, describe how they are different.
- Illustrate: Draw pictures of both apples to show how they look after two days and at the end of the week.
- **Chart:** Create a chart or graph to record your data.

- This is what happened to each apple:
- I think the apples looked different because:
- This is what I learned about the food that I touch and eat:

TELL YOUR FAMILY ...

Make "Wash your Hands" reminders to hang near the kitchen sink or on the refrigerator at home to make sure that your family members are "All Washed Up" before they handle food. Get a handwashing poster at www.fightbac.org downloads.



QUESTION

Is it important to wash your hands before handling, preparing, or serving food — even if they look clean?

MY HYPOTHESIS:



To sterilize surfaces: Wash surfaces with diluted bleach solution (just 1 Tbls. liquid bleach in 1 gallon water)



QUESTION

Is there a potential danger in using the same equipment to prepare raw meat and other foods?

MY	HYPOTHESIS
	



Use one cutting board for fresh produce and a separate one for raw meat, poultry and seafood.

SAFELY SEPARATE

MATERIALS NEEDED:

- 2 clean sponges, cut in the shape of chicken legs
- Red or other brightly-colored poster paint
- Paint brush
- Cutting board
- Cucumber
- Clean, light-colored plate
- Serrated knife

PROCEDURE

- 1. Dampen both sponges. Set one sponge aside to represent the "cooked chicken."
- 2. Paint both sides of the other sponge to represent raw chicken. Pretend that the paint is the juice of the chicken that may have been contaminated with Salmonella!
- 3. Place the painted sponge on the cutting board and use a knife to cut the sponge in half. Move the painted sponge onto the plate, and don't wash the cutting board.
- 4. Next, cut a slice of raw cucumber on the same cutting board you used in Procedure #3.
- 5. Now, place the clean sponge ("cooked chicken") that was cooked well-done on the plate with the "raw chicken" sponge.

MY OBSERVATIONS

MY CONCLUSIONS

- After #3, this is where I observed the paint (representing Salmonella) on —
 - the cutting board:
 - the knife:
 - my hands:
 - the plate:
- After #4, this is what happened to the cucumber slices:
- After #5, this is what happened to the "cooked chicken" sponge:
- Chart the path of "Salmonella" paint between each item.

- This is how I can get rid of the paint "bacteria" on —
 - the cutting board:
 - the knife:
 - my hands:
 - the plate:
- If I touch something else without washing my hands — or use the knife again — this is what can happen:
- To kill the bacteria on the chicken, it is important to:
- If someone ate the raw cucumber, this is what could happen:
- This is what can happen when cooked chicken is placed on the same plate as raw chicken:

TELL YOUR FAMILY ...

Remind your family members to wash all cutting boards and utensils between uses in the dishwasher or with hot soapy water.

Be sure to always rinse vegetables and fruit under running tap water before eating or preparing them!

PROPER PATTIES

MATERIALS NEEDED:

- 1/4 lb. of fresh, lean hamburger meat
- Food thermometer
- Access to toaster oven with a broiler and broiler tray (or an electric fry pan)
- Pot holder

PROCEDURE

- 1. Form a round, thick (1") hamburger patty. Measure and record the temperature of the patty $\frac{1}{4}$ " from the edge. (See chart below.)
- 2. Now, take the meat's temperature in the very center of the patty. Then wash the thermometer thoroughly.
- 3. Place the patty on the toaster oven broiling tray.
- **4.** Place the tray in the toaster oven and turn the dial to broil.
- 5. When the burger looks cooked on one side, have your teacher turn over to brown the other side. Remove it from the toaster oven.
- 6. Now take the patty's temperature $\frac{1}{4}$ " from the outside edge, and again in the center of the patty. This must be done quickly so the patty doesn't lose its heat! Record your temperature reading on the chart below.
- 7. If the temperature reading is less than 160°F/71°C, place the patty back in the oven and then take the meat's temperature every two to three minutes until the temperature is 160°F/71°C in the center.
- 8. Cut open the patty and observe the inside.

Hamburger Temperature Results						
	Raw	Test 1 When outside	Test 2	Test 3	Test 4	Done/ Safe to Eat
		looks cooked	Time:	Time:	Time:	Time:
¹ / ₄ " from edge						160° F/71° C
Center						160° F/71° C
Difference						0

MY OBSERVATIONS

- When I measured the meat temperature 1/4" from the edge and in the center the first time, the outside of the patty looked:
- When the thermometer read 160°F/71°C in the center,
 - The outside of the patty looked:
 - The inside of the patty looked:

MY CONCLUSIONS

- The best way to tell if the hamburger is done and safe to eat is to:
- It's important to wash the thermometer after each use because:
- When meat is cooked to 160°F/71°C:
- If hamburger is not cooked to 160°F/ 71°C, this is what could happen:
- What do you think? Does the color of meat tell you whether it is cooked enough to be safe to eat?

DID YOU KNOW?

When a piece of meat is "ground up" to make hamburger, the bacteria that was on the surface of the meat can end up on the inside of the burger! That's why it's so important to cook the whole burger to a safe temperature of 160°F/71°C!

TELL YOUR FAMILY ...

Check to see if your family has a food thermometer and uses it! Let them know what you learned about making meat safe to eat! Wash your hands after handling raw meat or poultry!



QUESTION

How can you tell when a hamburger patty is cooked to a safe temperature?

IVII	HYP	0	ГН	E	212	3:
					_	
					_	
					_	
			_		_	
					_	
					_	



Thermometer Tips:

- Make sure the thermometer goes straight into the meat and does not come out the other side to touch the pan!
- Thermometers should be washed with soap and hot water each time you take the temperature of the meat.



QUESTION

How do you know when a hard-cooked egg is safely cooked?

DID YOU KNOW?

A raw egg spins more slowly than a cooked egg! The liquid inside the raw egg slows it down!

BE A GOOD EGG

MATERIALS NEEDED:

- Three large raw eggs
- Electric "hot pot" with access to outlet or pan (with lid) with access to heat source
- Slotted spoon
- 1 small, clear cup or jar
- 3 small paper plates
- Knife
- Permanent marker
- White sheets of paper for each student
- Pencils; yellow, orange and red crayons or markers
- Access to cold water

GETTING READY

Choose three classmates to be "egg peelers."

Label the eggs and paper plates with permanent marker:

- #1: cooked 2 minutes
- #2: cooked 8 minutes
- #3: cooked 15 minutes

PROCEDURES

- 1. Carefully place the three eggs in cold water in electric "hot pot" or pan. Heat until boiling; remove from heat and cover with lid.
- 2. Remove Egg #1 with the slotted spoon after 2 minutes, and cool under cold water.
- 3. Remove Egg #2 6 minutes later and cool under cold water.
- 4. Let Egg #3 stay in the hot water for 7 minutes more (total time: 15 minutes). Then cool under cold water.
- 5. Have each "egg peeler" peel one of the three cooked eggs, cut the egg in half, and put it on its labeled paper plate.
- 6. Observe and record the differences between the three eggs! (Use chart below.)

Record your observations: What do you see?					
Part of egg	#1: Cooked 2 minutes	#2: Cooked 8 minutes	#3: Cooked 15 minutes		
Yolk					
White					

MY OBSERVATIONS

Illustrate: Draw a picture of each egg using pencil and yellow or orange marker egg longer: or crayon to show the whites and the

Describe and Categorize:

different in the three eggs?

 List as many words as you can think of to describe the whites and yolks of each egg.

yolk. How are the yolks and whites

• Circle the ones that indicate that an egg is safe to eat and put a red X through the ones that indicate it is not.

MY CONCLUSIONS

- This is what happens when you cook an
- · You can tell that an egg is cooked sufficiently by:
- What Do You Think? Is it okay to eat raw eggs if they are mixed in raw cookie dough?

TELL YOUR FAMILY ...

Bring home your picture of the three eggs and post it on your refrigerator.

Remind your family to cook eggs until the yolks and whites are firm. Don't use recipes in which eggs remain raw or only partially cooked.

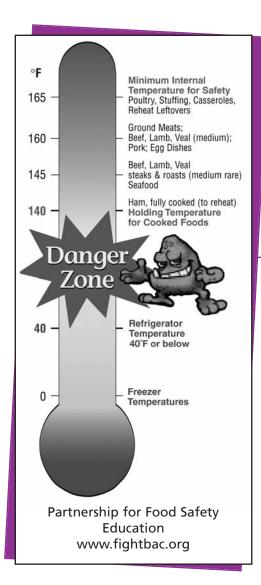
COOLING COUNTS

MATERIALS NEEDED:

- Hot water
- Measuring cup
- Shallow container (1 cup/500 ml minimum)
- Tall container
- Food thermometer
- Wire or string

PROCEDURE

- 1. Pour 1 cup hot water into each container.
- 2. Check the temperature of the water in each container at 5-minute intervals, and record the times and temperatures. (See tip at right.)



MY OBSERVATIONS

made from the

same material, like plastic or glass

- This is what I observed about the water cooling in each container:
 - Shallow:
 - Tall:
- Chart the results for temperatures at 5-minute intervals.

MY CONCLUSIONS

- It took the taller container longer to cool because:
- It is important for leftover food to be cooled down quickly when stored in the refrigerator because:
- If the water were clam chowder and it took a long time to cool down, this is what could happen:

DID YOU KNOW?

- Yeast is a good microorganism but it shows us how bacteria can multiply!
- The vocabulary word "perishable" describes foods on which bacteria could grow if not stored properly — like dairy products or vegetables. What other foods can you think of that are "perishable?"

TELL YOUR FAMILY ...

Check to see how leftovers are stored in your home. Encourage family members to use shallow containers and to always refrigerate leftovers promptly.





For tall containers, you may need to use wire or string to lower the thermometer into the water.

QUESTION

Does the shape of a container affect the rate at which cooling takes place?

MY HYPOTHESIS:			



QUESTION

Can chilling food help stop the growth of bacteria?

DID YOU KNOW?

- Yeast is a good microorganism — but it shows us how bacteria can multiply!
- The vocabulary word "perishable" describes foods on which bacteria could grow if not stored properly like dairy products or vegetables. What other foods can you think of that are "perishable?"

EXPERIMENT

YEAST BALLOON BLOW-UP

MATERIALS NEEDED:

- 2 balloons
- 3 500 ml beakers
- 2 250 ml flasks or small clear glass or plastic bottles with small openings
- Food thermometer to measure the temperature of the water
- Room-temperature water (about 70°F/21°C)
- ½ cup of sugar
- 1 package of dry yeast
- Warm water (about 110°F/43°C to 120°F/49°C)
- Ice water (below 40°F/4°C)

GETTING READY

Fill the two balloons with air to stretch them; then deflate.

Label the beakers:

- 1 "Mixing Beaker"
- 2 "Warm Water Bath"
- 3 "Ice Water Bath"

PROCEDURE

- 1. Fill the "Mixing Beaker" with 500 milliliters of room-temperature water. (Room temperature is about 70°F/21°C; use your thermometer to measure the temperature of the water.)
- 2. Dissolve the sugar in the room-temperature water. Add yeast to the sugar/water solution and stir gently to dissolve.
- 3. Pour half the solution into each flask. Carefully stretch the balloon openings to fit over the openings of the flasks and place one flask in each of the other two beakers.
- **4.** Put warm water (about 110°F/43°C to120°F/49°C) into the "Warm Water Bath"- labeled beaker just enough to cover the yeast mixture in the flask.
- **5.** Put ice water (below 40°F/4°C) into the "Ice Water Bath" beaker. Again just enough to cover the yeast mixture in the flask.
- 6. Observe and record what happens after 5 minutes. After 30 minutes. After 1 hour.

MY OBSERVATIONS

- My observations at each interval were:
 - 5 minutes:
 - 30 minutes:
 - 1 hour:
- This is what happened to the yeast in the warm water bath:
- This is what happened to the yeast in the ice water bath:

MY CONCLUSIONS

- If the yeast in the warm water bath were dangerous bacteria instead of harmless yeast microorganism, what could you say the warm environment does?
- If the yeast in the ice water bath were dangerous bacteria instead of good yeast, what could you say the cold environment does?
- What would happen if you put a sample of the yeast/sugar solution in the refrigerator?
- How do yeast and bacteria act the same?
- What effect did the cold temperature of the ice water have on the yeast?

TELL YOUR FAMILY ...

Always store "perishable" foods in the refrigerator to prevent bacteria growth. Keep your refrigerator at 40°F or below. Use an appliance thermometer.

BAC-Catcher Game

Folding Instructions

- 1. Cut along the dotted line.
- 2. Place the BAC-Catcher face down. Fold 2 corners together to form a triangle. Crease and unfold. Now fold the other 2 corners together, crease and unfold.
- 3. Now, fold each corner to the center point.
- 4. Turn the folded paper over and fold each corner into the center.
- 5. Fold the square in half. Unfold it and fold it in half the other way.
- 6. Using both hands, place your thumbs and index fingers under the flaps.

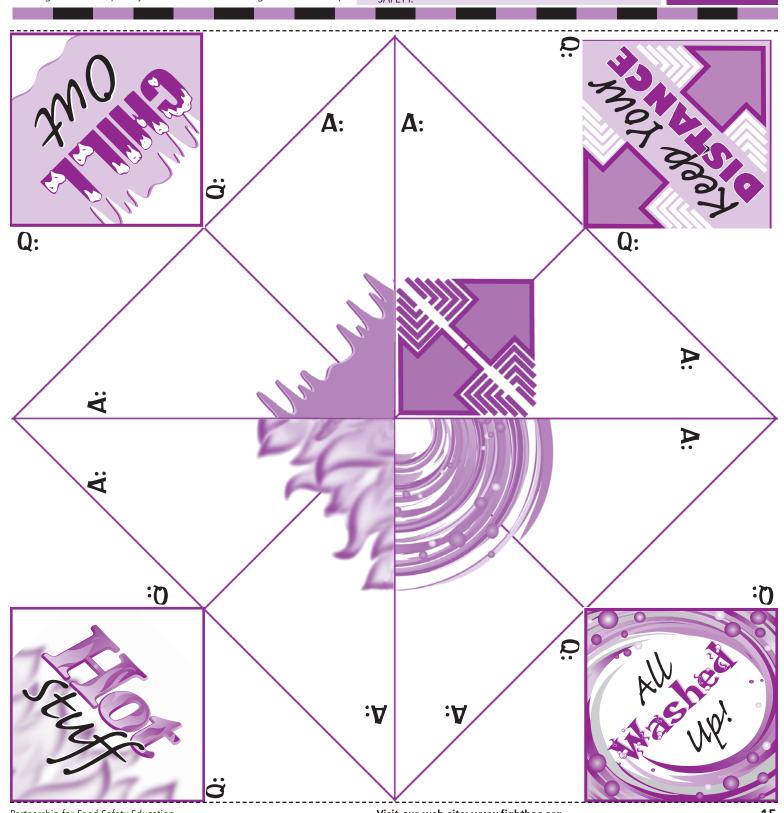
How to Play -

- This game is for 2 players. Ask the other player to pick one of the printed squares -- for example, "Hot Stuff."
- Open and close the BAC-Catcher in an alternating direction for each letter of the phrase H O T S T U F F (8 times).
- Ask the question closest to the phrase chosen and let the other player answer. Lift the flap to find the answer.
- Now give the BAC-Catcher to the other player. It's your turn to answer.
- Alternate asking and answering until all the question are answered . . . everyone wins by learning about FOOD SAFETY.

Write your own food safety Questions and Answers in the Q & A triangles -- two for each Action.

- Clean
- Separate
- Cook
- Chill

Have Fun Fighting BAC!



FBI* CASE: Perils at the Picnic

Calling all agents! The FBI Team has learned of a possible foodborne illness incident in progress!

As an FBI detective, you must investigate the facts and give your expert conclusions. Because now that you're an expert on food safety — it's up to you to **Fight BAC!**® for food safety!

* FBI = foodborne illness

It was a Saturday morning in early summer . . .

Tom gets a call from his friends to meet them in the park down the street to play ball. They tell him to bring food for a picnic lunch, so they can stay all day. (One of his buddies, Nick, is bringing his older brother along to help with the barbecue.) The boys can't wait to get to the park early so they can start playing before it gets too hot!

Tom looks in the refrigerator and finds some potato salad his mom made during the week. He also finds some cold cuts, leftover turkey, cheese, a tomato, an apple and some grapes in a drawer. He wraps the meat and cheese in plastic wrap and packs them in a big paper bag with some paper plates, bread, the fruit and tomato and a knife and fork. Just before he leaves, he checks the freezer and finds three hamburger patties wrapped in plastic — he throws them in the bag, too.

As Tom runs out the door, he tosses his baseball and glove in the bag and grabs his bat. When he gets to the park, several of his friends are already there. Nick's older brother, Stephen, is setting up a grill for cooking hamburgers.

Tom and his friends claim the last picnic table — a great spot in the sun!
Tom grabs his baseball and glove out of the food bag and leaves the bag on top of the table. He figures that this way, the hamburger will be thawed enough to cook by lunchtime!

When it's time to break for lunch, Tom's friends go to find a bathroom while Tom unpacks the picnic food. The hamburgers are dripping on the outside, but still frozen on the inside and stuck together! So Tom sets them on a paper plate and uses the knife and fork he brought to pry them apart. When they're almost apart, he uses his fingers to separate them the rest of the way and then leaves them on the plate so they can thaw a bit more before he takes them over to the grill.

Tom then sets the cheese and the tomato on the plate and slices them to use on top of the burgers. That way everything will be ready to stick on top of the burgers!



Food Safety Practices at home Use this safety Practices at home



SURVEY

Answer questions 1-15: Y = Yes N = No

Add the initials of family members in each column head.

D





DID YOU.

- 1. Wash hands with warm water and soap for 20 seconds before preparing food?
- 2. Wash hands with warm water and soap for 20 seconds before eating?
- **3.** Clean countertops before preparing food?
- 4. Rinse fruits and vegetables with running tap water before preparing them?

	er before eating them?	ning
Date:	Family Handwashin Name:	g Scoreboard: When washed:

	ME		<u> </u>	<u> </u>
1.				
2.				
3.				
4.				
5.				
TOTAL	YN	YN	YN	YN

PARAT

DID YOU . . .

- **6.** Clean the cutting boards used for raw meat, fish and poultry before using for any other foods?
- 7. Keep raw meat, fish and poultry wrapped properly in the refrigerator so juices do not drip on other foods?
- 8

• Put cooked meat, fish or poultry on a different platter than the one with the raw juices?	- The
Cutting Board Critique Number of cutting boards:	
Type (plastic, wood, etc.):	

ME 6. 7. 8. TOTAL

B

C

D

Δ

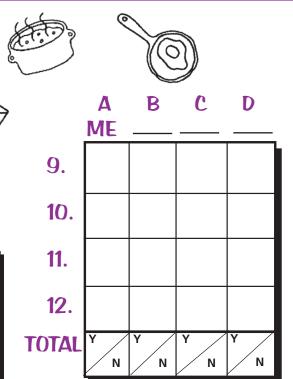
18

EOOK \

DID YOU . . .

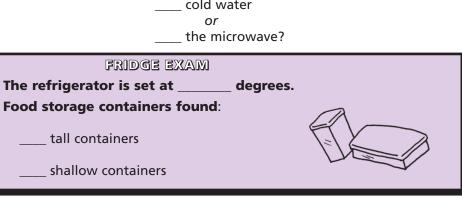
- 9. Rotate food in the microwave to avoid "cold spots?"
- Bring sauces, soups and gravy to a boil when reheating?
- 11. Make sure eggs were cooked properly?
- **12**. Eat cookie dough or cake batter that was made with raw eggs?

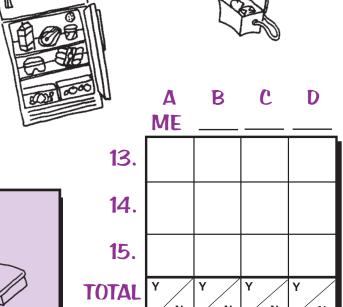
Safe Temperature Summary		
Kind of Meat:	Date Cooked:	Food thermometer temp:
Kind of Poultry:	Date Cooked:	Food thermometer temp:
Kind of Fish:	Date Cooked:	Food thermometer temp:



DID YOU . . .

- **13.** Use a cold pack for packed lunches or picnic foods?
- Refrigerate leftovers right away?
- **15.** Defrost foods in: ____ the refrigerator cold water or

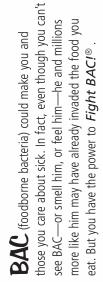




Date Completed:	Student signature:	
	Parent/Guardian signature:	



Four Simple Steps to Food Safety



Foodborne illness can strike anyone. Some people are at a higher risk for developing foodborne illness, including pregnant women, young children, older adults and people with weakened immune systems. For these people the following four simple steps are critically important:



CLEAN: Wash hands and surfaces often

kitchen and get onto hands, cutting boards, utensils, counter tops and food. To Fight Bacteria can be spread throughout the

- after using the bathroom, changing diapers and hanleast 20 seconds before and after handling food and Wash your hands with warm water and soap for at
- Wash your cutting boards, dishes, utensils and counter tops with hot soapy water after preparing each food item and before you go on to the next food.
 - faces. If you use cloth towels wash them often in the Consider using paper towels to clean up kitchen surhot cycle of your washing machine.
- Rinse fresh fruits and vegetables under running tap water, including those with skins and rinds that are
- water or scrub with a clean vegetable brush while rins- Rub firm-skin fruits and vegetables under running tap ing with running tap water.

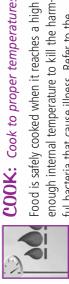


SEPARATE: Don't cross-contaminate

seafood and eggs, keep these foods and their Cross-contamination is how bacteria can be spread. When handling raw meat, poultry,

Wash cutting boards, dishes, countertops and utensils with uices away from ready-to-eat foods. Always start with a clean scene— wash hands with warm water and soap hot soapy water.

- other foods in your grocery shopping cart, grocery bags Separate raw meat, poultry, seafood and eggs from and in your refrigerator.
- Use one cutting board for fresh produce and a separate one for raw meat, poultry and seafood.
- Never place cooked food on a plate that previously held raw meat, poultry, seafood or eggs



COOK: Cook to proper temperatures

enough internal temperature to kill the harmchart on the back of this brochure for the proper internal ful bacteria that cause illness. Refer to the

- perature of cooked foods. Make sure that meat, poultry, the internal temperature shown on the graphic on page: Use a food thermometer to measure the internal temegg dishes, casseroles and other foods are cooked to 13 of this guide.
- Cook ground meat or ground poultry until it reaches a safe internal temperature. Color is not a reliable indicator of doneness
- recipes in which eggs are cooked or heated thoroughly. Cook eggs until the yolk and white are firm. Only use
- When cooking in a microwave oven, cover food, stir and rotate for even cooking. Food is done when it reaches

the internal temperature shown on the graphic on page

Bring sauces, soups and gravy to a boil when reheating.



CHILL: Refrigerate promptly

bacteria. Do not over-stuff the refrigerator. temperatures slow the growth of harmful Refrigerate foods quickly because cold

constant refrigerator temperature of 40°F or below is one the temperature is consistently 40°F or below. The freezer Cold air must circulate to help keep food safe. Keeping a borne illness. Use an appliance thermometer to be sure of the most effective ways to reduce the risk of foodtemperature should be 0°F or below.

- Refrigerate or freeze meat, poultry, eggs and other perishables as soon as you get them home from the store.
- fresh fruits or vegetables sit at room temperature more than two hours before putting them in the refrigerator Never let raw meat, poultry, eggs, cooked food or cut or freezer (one hour when the temperature is above
- are three safe ways to defrost food: in the refrigerator, in cold water, and in the microwave. Food thawed in be kept at a safe temperature during thawing. There Never defrost food at room temperature. Food must cold water or in the microwave should be cooked immediately.
- Always marinate food in the refrigerator.
- Divide large amounts of leftovers into shallow containers for quicker cooling in the refrigerator
- www.fightbac.org for optimum storage times. Use or discard refrigerated food on a regular basis. Check USDA cold storage information at



Across the Curriculum

Language Arts Art	 BAC!'s Story — In His Own Words! Invite children to write a short adventure story from the point of view of the bacteria — featuring their efforts to stay alive and multiply! Encourage them to include several food safety mistakes that help bacteria multiply and several good food safety habits that keep bacteria from multiplying! Have students illustrate their stories with their own portrait of BAC! 	
Language Arts Music	 Fight BAC!® Rap Have children (as a group) compose a rap song or chant using the basic messages of food safety. Start by having students list all the vocabulary words they can think of for each key "Action," along with words that rhyme. Remind them to create one verse for each key "Action." When the rap is done, have children perform it with percussion or rhythm instruments. 	
Language Arts Science	 Good Guys/Bad Guys Not all bacteria are bad! Have students research good bacteria and bring in three kinds of food — or pictures of food — that have good bacteria (like yogurt or cheddar cheese). Ask children to research the purpose of good bacteria in food. Encourage them to use a variety of sources: Internet, library, the school nurse, etc. 	
Language Arts Science Art	 Bacteria — From the Artist's View! Under a microscope, bacteria can look like a colorful work of art! Have students find pictures of magnified bacteria cells in the encyclopedia or through other research. Have students draw their own pictures of bacteria as if they were seeing them through a microscope, using colored pencils and other materials to give texture to the artwork. Remind them to label their pictures with the scientific name! (What does Salmonella really look like?) Remind the students to check the www.fightbac.org web site to find other bacteria names. 	
Math Science	 Lunch Box Test Pilots! Pack two lunches in the morning with some cold food items (like pasta salad, a cheese sandwich or yogurt). Use a cold pack in one lunch bag. Have students test each food's temperatures at 1-hour intervals to see if any of the foods are in the "danger zone." (See thermometer illustration on page 13.) Make a bar chart of the food's temperatures to show the difference between the two lunches, plotting out the temperatures taken at each interval. Invite children to explain the significance of this information! 	
Math	 Multiplying Bacteria Have students imagine a fictional bacteria that will reproduce once every 30 minutes at room temperature (70°F/21°C), once every 10 hours when cooled in the refrigerator at 40°F/4°C, and once every 7 hours when heated in the oven at 120°F/49°C. Now, challenge them to figure out and chart: How many bacteria would be present in each location after 1 hour 2 hours 6 hours 1 day. Through this exercise, what can they hypothesize about how temperature affects bacterial growth? 	
Social Studies Creative Dramatics	 Food Safety's Cast of Characters Many people are responsible for helping to keep food safe. Conduct research about the people involved from farm to table like farmers, grocers, cooks, government inspectors and others. Role-play these characters in class using props students bring in or make. 	
Social Studies	 Food Safety Long Ago and Far Away Ask your school librarian to help students research food safety practices from long ago — such as the use of drying and salting for a long sea-voyage first use of thermometers in determining safe food temperatures the invention of pasteurization irradiation. Encourage students to talk to parents and grandparents about how food was stored when they were growing up and contrast it with how food is stored today. In current times, how might people in different parts of the world deal with food safety? Have students brainstorm how the availability of soap water and refrigeration would make a difference. What about places impacted by weather disasters like earthquakes or hurricanes? What strategies could they come up with for these affected areas? 	



Around Your School

Food Safety Signs	"Spread the word not the germs!" Have students design food safety signs that cover basic food safety messages to post in key places around the school.
	• Then they can decide the best places to post the signs — like "wash your hands" signs in the bathrooms and "use a cold pack!" signs in the cafeteria.
	 For handwashing signs, show the proper steps — and try to laminate them for lasting use! Don't forget the adult bathrooms — even teachers can use some tips and reminders.
Your Attention Please! SEPTEMBER Is National Food Safety Month!	Have your students write fun "copy" for loudspeaker announcements giving basic food safety messages. Get lots of good message material at www.fightbac.org.
	• Try composing a "tip of the day" that can be announced every morning for a week. Announce it to be Fight BAC! Week!
	Choose "student announcers" to get the word out!
Fight BAC!® Puppet Show or Play	 Using what they've learned about food safety through the classroom program and their own research, have students write a play or puppet show about food safety. Characters can be played by real students, or by puppets!
	To make puppets: Have students create BAC! figures using green construction paper. (Or check the www.fightbac.org web site to download and print out the BAC! character.)
	 Mount the figures with velcro on old socks to make puppets. They can create other characters for the show if needed.
	Have students present their puppet show or play to a kindergarten or first grade class. (For other options, see the next activity.)
(Food) Safety in Numbers!	In an Assembly • Join with other classes in your school that are participating in the Fight BAC!® Program, and create a food safety assembly! Perform the play or puppet show written by the class. You might even invite an outside speaker who is an expert on food safety to be part of the program. Include your rap song!
	 For the PTA Arrange for a group of students to speak at the next PTA meeting to share what they've learned about Food Safety, or perform their Fight BAC!® play. Have copies of the Action Chart (page 20) to hand out. (Note: see the Special Event inset box on page 23.)
"Food Safety Stuff" Bulletin	Choose a bulletin board in a central spot for "Food Safety Stuff." Divide it into four sections — one for each "Action."
Board	Have students design how to best present food safety. Encourage them to include stories, poems, drawings, collages and magazine cut-outs to illustrate each message.
Food Safety	Help your students become Fight BAC!® Buddies for a kindergarten or first grade class in your school. Topics can include handwashing and safe snacks or lunch.
Buddies	in your school. Topics can include handwashing and safe shacks of furien.
Buddies	Brainstorm ideas ahead of time and plan and practice the lesson. This lunchtime lesson can be especially useful for young children who eat in their own classroom.



Around Your Community

PSAs on the Air	 Talk with students about what a Public Service Announcement is and does. (Try recording a couple at home, or ask a local radio station or cable network for samples!) Now, challenge students to write their own PSAs about food safety. Vote on the best ones and see if you can get one aired on local TV or radio.
Food Safety Scouts	 Contact your local scout troops and see if your students can help them plan a food safety presentation. Encourage them to visit the younger Brownie and Cub Scout troops to talk about handwashing and food safety.
Food Safety Bookworms	 Anyone who cooks needs to know about food safety! Have students hold a school-wide contest to create a great food safety bookmark. Laminate copies of the winners and ask local bookstores if they will make them available to customers who buy cookbooks.
Helping the Elderly or Home-bound	 Have students prepare posters or little refrigerator magnets as food safety reminders for Meals on Wheels, Guardian Angels, Hot Meals for Seniors and other programs that reach out to those with special needs. The student can be a "Food Safety Guardian Angel" to be sure the client follows the food safety rules.
Where's the Beef? — A Supermarket Field Trip	 Arrange a class trip to a local supermarket. This is a great activity to do during Food Safety Month in September in November, before the holidays (when lots of turkeys and roasts are cooked), or before picnic season starts on Memorial Day! Encourage the class to investigate meat, poultry and fish labels for cooking and safe temperature instructions. Have them see if food and appliance thermometers are sold and what types are available. As follow up, have students create a PR campaign for the supermarket to publicize the importance of food safety. Have them consult the supermarket manager to see what would work best for the store. Suggest posters, in-bag flyers, or brochures.
Restaurant Safety	 Have students generate a list of local restaurants where they eat. Together compose a letter letting the restaurants know that your class is studying food safety and wants to learn more about how to keep food safe. Send them a copy of the Four Actions chart from the inside cover so they know what your students are learning. Invite a local restaurant manager to visit the class and talk more about the food safety rules that restaurants follow. Encourage the children to prepare questions in advance and then have them write up the group interview to be featured in the school newspaper.
	·

Host a Fight BAC!® Special Event!

It's fun to hold a special event in the classroom . . . around the school . . . or out in the community. Encourage students to take their Food Safety Play or Puppet Show "on the road" to get the word out!

Assign groups of students to manage the different parts of the event:

- Set up a time on the school calendar (September is Food Safety Month).
- Design and distribute invitations.
- Make posters to publicize the event.
- Include an announcement in the school newspaper.
- Prepare hand-out materials to give to the audience.
- Invite the school nurse, food service director, or other expert to hold a Q&A session.
- Create **costumes**, puppets and other props.

- Include a rap song in the program.
- Post bacteria artwork and other food safety projects around the room for family viewing.
- Set up a DVD player to show the video.
- If **Internet access** is available, access www.fightbac.org and www.scrubclub.org for activities and songs.
- Serve refreshments being sure to use good food safety practices!
- Invite the local **community press** to be guests of honor!

Teacher Advisors Your Game Plan for Food Safety

Tracy AjelloFifth Grade Teacher
Doolittle School, Cheshire, CT

John Doyle Science Teacher The Allan Stevenson School, New York, NY

Mary L. Yeates Family Science Teacher Forest Oak Middle School, Gaithersburg, MD

The Partnership for Food Safety Education unites industry associations, professional societies in food science, nutrition and health, consumer groups and the United States Department of Agriculture, the Environmental Protection Agency and from the Department of Health and Human Services, the Centers for Disease Control and Prevention and the Food and Drug Administration, to educate the public about safe food handling and preparation.

Resources:

Download brochures, flyers, activity sheets and more at <u>www.fightbac.org</u>.

For more food safety information go to www.foodsafety.gov.

The Partnership for Food Safety Education 2006 Partners

American Dietetic Association
American Egg Board and the Egg Safety Center
Association of Food and Drug Officials
Consumer Federation of America
Food Marketing Institute
Food Temperature Indicator Association
Institute of Food Technologists
International Association for Food Protection
International Dairy, Deli and Bakery Association
International Food Information Council Foundation
International Fresh-cut Produce Association
National Association of State Departments of
Agriculture

National Chicken Council
National Pork Board
National Turkey Federation
NSF International
Produce Marketing Association
School Nutrition Association
The Soap and Detergent Association
United Fresh Fruit and Vegetable Association

Federal Government Liaison

U.S. Department of Agriculture

U.S. Food and Drug Administration

U.S. Department of Health and Human Services, CDC

U.S. Environmental Protection Agency

International Affiliate

Canadian Partnership for Consumer Food Safety Education



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