



AGENDA

Introduction:

- What is evaluation
- Development of S.A.F.E. Evaluation

The Test

Administering the Test

BREAK

Scoring the Test

The Database

Reporting Results

Wrap-up and Evaluation of Training

Goals: Participants will:

- Understand the S.A.F.E. Third Grade Evaluation: What it is and how it works
- Know what is in the test
- Know how to administer and score the test
- Know how to use the database to record information
- Know how to use the results for planning and reporting

What is the S.A.F.E.

Evaluation:

First: Important parts of an evaluation:

- Know WHAT you want to measure: The S.A.F.E. Program
 - Fire safety education so students can recognize dangers of fire
 - So, we measure the EDUCATION, i.e. what students have learned
- Know HOW to measure it: Test
- Know that the TEST is accurate and understandable

Limits:

- Not all learning can be tested on paper and pencil test
- Leaving things out affects how we test what we leave in

How did we determine WHAT to measure?

Sources:

- *Curriculum Planning Guidebook*
- Department of Education Health and Safety Curriculum frameworks
- Learn Not to Burn
- Massachusetts Fire Incident Reporting System
- US Fire Services, Topic Fire Research Series
- Fire and Life Safety Educators Task Force
- Professional Elementary School Educators
- MCAS Question Format: multiple choice

Role of Fire and Life Safety Educators Task Force:

- Develop and agree on what is to be tested
- Review and revise draft test
- Organize pilot tests
- Review results of pilot tests

WHAT is measured:

Concepts: General statements of learning goals, formed by combining specific details.

Understands and practices stop-drop-and-roll: test questions 20 and 21

Understanding:

- Stop-drop-and-roll is a way to put out the fire
- For when fire gets on clothes
- Important to act immediately
- Stop-drop-and-roll is very different from crawl-low-under-smoke

Behaviors: Correct sequence is critical

- Stop immediately
- Drop to ground
- Cover eyes and mouth
- Roll over and over until flames are out

Concepts included in the test:

1. Understands and practices match and lighter safety
2. Understands and practices stop-drop-and-roll:
3. Understands and practices escape plans
4. Understands smoke alarms and responding to smoke alarms
5. Understands and practices crawl-low-under-smoke
6. Identifies exit signs and knows two ways out of public places
7. Understands and can report fires and other emergencies
8. Understands tobacco and smoking materials are dangerous in three ways
9. Understands firefighters are helpers who save lives
10. Understands first aid for burns

Is the test accurate and understandable?

Tested with Six Third Grade Classrooms

What we learned:

- Students understand the pictures and questions in the same way, but we needed to make some changes to achieve that: Examples:
 - Smoke alarm ‘chirp’ not ‘chirp – chirp – chirp’ (p. 9)
 - Placement of fire on shirt (p. 11)
- Children understood the stories and questions
- Answers are reliable, i.e. most children answer in the same way

- Beginning third graders struggle with the test; third graders later in the school year can complete the test.
- Test originally was too long: needed to set time limit to 15 minutes
- Answer sheet too difficult for third grade students

Summary so far:

To evaluate something we need to:

1. Know WHAT we want to measure
2. Have a tool that measures it
3. Third grade evaluation tests the S.A.F.E. program:
curricula, teaching, training
4. Child's application of understanding to a situation
(knowledge and behaviors)
5. Test works with third grade students, at the end of the
school year

The test:

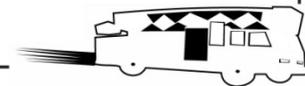
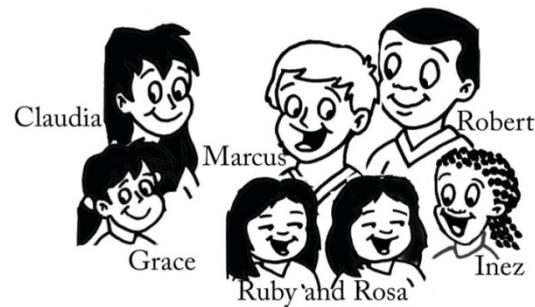
- 30 Questions
- 10 Key Concepts
- Stories & Pictures

Fire safety is important.

This booklet has stories about Claudia, her sister Grace, Marcus, Robert, his sister Inez, Ruby and Rosa, and their families. The stories describe different events that happen that involve fire safety. Read each story and be sure to look at the pictures.

Each story has questions for you to answer. For each question, choose the correct answer by circling the letter A, B, C, or D next to the correct answer.

Here are Claudia, Grace, Marcus, Robert, Inez, Ruby and Rosa.



1. Match and lighter safety

4



Aunt Mary left her cigarettes and lighter on the table on the back porch. Robert sees the cigarettes and lighter.



Here are some questions. Put a circle around the letter next to the correct answer.

4. What should Robert do?

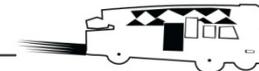
- A. Get the cigarettes and lighter and bring them to his mother
- B. Hide the cigarettes and lighter so Inez won't get them
- C. Tell his mother the cigarettes and lighter are on the table
- D. Bring the cigarettes and lighter back to Marcus' mother

5. Which one of these statements is NOT TRUE?

- A. Matches and lighters are only for grown ups
- B. A child can have matches as long as the matches are not burning
- C. A child should always tell a grown up if there are matches or lighters out in the open
- D. Children should not play with matches and lighters.

6. When is it safe for a child to use matches and lighters?

- A. Only when other children are playing with matches and lighters
- B. Only to light candles on a birthday cake
- C. Only when a grown up is watching
- D. Only to see in the dark



2. Stop – drop – and – roll

12

Ruby and Rosa's Grandmother invites the children to lean in to help blow out the candles.

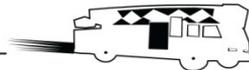
Marcus leans in too close to the candles. Fire gets on his shirt.



Here is a question. Put a circle around the letter next to the correct answer.

20. What should Marcus do?

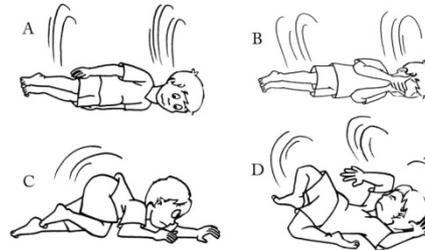
- A. Run to find help
- B. Take his shirt off
- C. Stop, drop, and roll
- D. Run water on his shirt for 10 minutes



13

Here is another question. Put a circle around the letter next to the correct answer.

21. Which picture shows the correct way to stop-drop-and-roll?



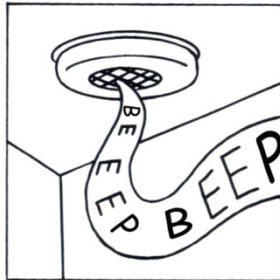
Marcus and his mother are making their home escape plan.



3. Escape Plans

5

It is night time and Robert is asleep. There is smoke coming over his bedroom door. The smoke alarm is making a loud screeching sound. The smoke alarm wakes Robert up.



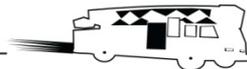
Here are some questions. Put a circle around the letter next to the correct answer.

7. What does it mean when the smoke alarm goes off?

- A. The batteries should be changed
- B. You should call 911
- C. Stop what you are doing and follow the escape plan
- D. The smoke alarm is broken

8. What should Robert do?

- A. Hide in his closet
- B. Crawl low under the smoke to get away from the smoke
- C. Run to get Inez
- D. Go tell his mother



14

Here are some questions. Put a circle around the letter next to the correct answer.

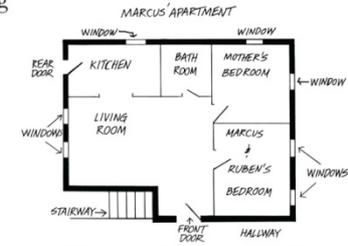
22. For a home escape plan, what is the MOST IMPORTANT thing every room should have?

- A. A fire extinguisher
- B. Two ways to get out
- C. A light
- D. An escape ladder

23. If there is an emergency, and the family escapes from the apartment, where should the family meeting place be?

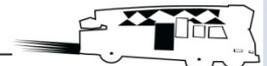
- A. In the hall outside the apartment
- B. On the back stairs
- C. On the front stairs
- D. Outside of the building

Here is a drawing of Marcus' apartment.

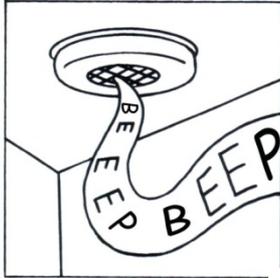


24. Which room in the apartment does NOT have at least two ways out?

- A. Marcus' and Ruben's bedroom
- B. Mother's bedroom
- C. Kitchen
- D. Bathroom



It is night time and Robert is asleep. There is smoke coming over his bedroom door. The smoke alarm is making a loud screeching sound. The smoke alarm wakes Robert up.



Here are some questions. Put a circle around the letter next to the correct answer.

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- C. Run to get Inez
- D. Go tell his mother

4. Smoke Alarms

Marcus is doing his homework. He hears the smoke alarm chirp.



Here are some questions. Put a circle around the letter next to the correct answer.

15. What does it mean when the smoke alarm chirps?

- A. There is a fire and Marcus should escape
- B. The batteries are wearing out and should be replaced
- C. There is a bird in the smoke alarm
- D. The smoke alarm is working properly

16. What should Marcus do when the smoke alarm chirps?

- A. Try to turn off the smoke alarm
- B. Ask his mother to turn off the smoke alarm
- C. Ask his mother to change the batteries
- D. Go do his homework someplace else

17. Which of these things does a smoke alarm do?

- A. Smells smoke
- B. Makes a loud noise if there is smoke
- C. Gives the alarm to escape
- D. All of these things

Ruby and Rosa's grandmother has asked Claudia's father to help put in new smoke alarms in their house.



Here is a question. Put a circle around the letter next to the correct answer.

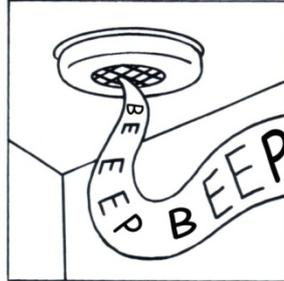
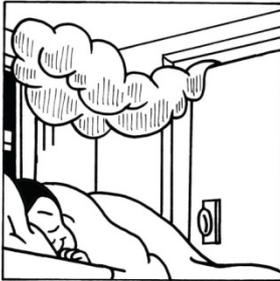
9. Where should they put the smoke alarms?

- A. On each floor of the house
- B. Outside each bedroom
- C. At the top and bottom of the stairs
- D. All of these places

5. Crawl low under smoke

5

It is night time and Robert is asleep. There is smoke coming over his bedroom door. The smoke alarm is making a loud screeching sound. The smoke alarm wakes Robert up.



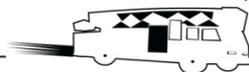
Here are some questions. Put a circle around the letter next to the correct answer.

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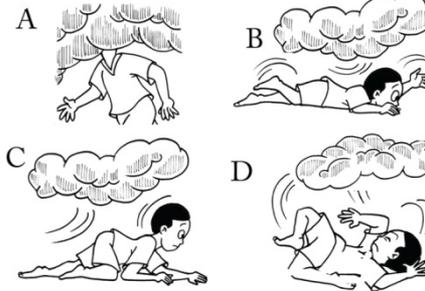
- A. Hide in his closet
- B. Crawl low under the smoke to get away from the smoke
- C. Run to get Inez
- D. Go tell his mother



6

Here are some questions. Put a circle around the letter next to the correct answer.

9. Which of these pictures shows the correct way to crawl low under smoke?



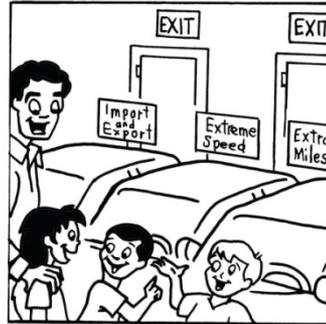
10. Which way should Robert go?

- A. Under his bed
- B. Out into the hallway
- C. Out his window to the back porch
- D. Stay in his bedroom and wait for someone to come help him



6. Exit signs and two-ways out

15



Claudia's father loves cars and trucks. He takes Claudia and her friends to the auto show to see the new model cars. The auto show is in a huge room, like the gym or auditorium at school.

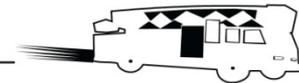
Here are some questions. Put a circle around the letter next to the correct answer.

25. Which word marks the way out of a building in an emergency like a fire?

- A. Extra
- B. Exit
- C. Extreme
- D. Export

26. If there is an emergency and they have to get out of the auto show, how many ways out of the auto show can they see?

- A. One
- B. Two
- C. Three
- D. Four



7. Reporting fires and other emergencies

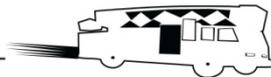
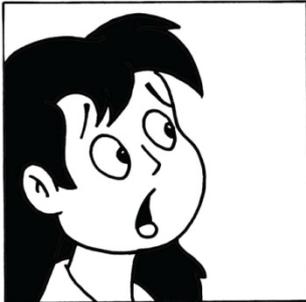
8



Claudia is sitting on her porch listening to music.



She looks up and sees there is a fire at Ruby and Rosa's house.



9

Here are some questions. Put a circle around the letter next to the correct answer.

12. What is the FIRST thing Claudia should do?

- A. Run across the street to tell Ruby and Rosa to get out of the house
- B. Yell "FIRE!" as loud as she can from her porch
- C. Go to the nearest telephone and call 911
- D. Find her mother and tell her there is a fire

13. When a person calls 911 what should the person NOT do?

- A. Say there is a fire and hang up
- B. Tell what the emergency is and where it is
- C. Tell their name and where they are
- D. Stay on the phone until the dispatcher tells them to hang up

14. Which of the following things is NOT an emergency?

- A. When there is a fire in the house
- B. When someone falls and is knocked out
- C. When someone can't breathe
- D. When someone's pet cat is up in a tree and won't come down.



Robert's Aunt Mary comes to visit.



Aunt Mary smokes.



Here are some questions. Put a circle around the letter next to the correct answer.

1. Where should Aunt Mary go to smoke?

- A. In the bathroom
- B. To the kitchen
- C. Outside the building
- D. To the hallway

2. What are cigarettes made of?

- A. charcoal
- B. wheat
- C. wood
- D. tobacco

3. Which ways are smoking materials dangerous?

- A. Smoke from cigars, cigarettes or pipes is unhealthy
- B. Cigars, cigarettes, pipes, matches and lighters can cause fires
- C. Tobacco is poisonous
- D. All of these ways



8. Tobacco and smoking materials are dangerous in three ways.

Robert is on his back porch. The firefighter is coming up the ladder.



Here is another question. Put a circle around the letter next to the correct answer.

11. What should Robert do?

- A. Open the door to the apartment and call to his parents
- B. Go inside and call his parents
- C. Hide from the firefighter
- D. Go toward the firefighter and wait until the firefighter gets to him



9. Firefighters are helpers who save lives

10. First aid for burns

p. 11

It is Ruby and Rosa's birthday, and all the children in the neighborhood are invited to a barbecue in the backyard.



Here is a question. Put a circle around the letter next to the correct answer.

19. Which are the things in the backyard that could be hot and could burn you?

- A. Barbecue grill
- B. Candles
- C. Matches and lighter
- D. All of these



16

Claudia is helping to make toast for herself and her sister, Grace. She sets the table and Grace sits waiting. Claudia puts out jelly and butter. She puts the toast in the toaster oven.



When she takes the toast out of the toaster oven, she grabs the tray with her hand and burns her fingers.



Here is a question. Put a circle around the letter next to the correct answer.

27. What is the **FIRST** thing Claudia should do?

- A. Put butter on her burned fingers
- B. Cover the burn with wet paper towel
- C. Run cold water over the burn right away and for 10 to 15 minutes
- D. Wave her fingers in the air to cool them



SVE Student Awareness of Fire Education Program

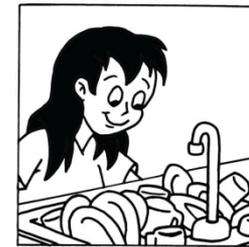
Third Grade Evaluation

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Here is another question. Put a circle around the letter next to the correct answer.

28. What should Claudia do **NEXT**?

- A. Go back to making toast
- B. Put jelly on Grace's toast
- C. Put a bandage on the burn
- D. Tell a grownup she has a burn



Now Claudia is going to help clean up. She will fill the sink with water so she can wash the dishes.

Here is another question. Put a circle around the letter next to the correct answer.

29. What is the **FIRST** thing Claudia should do?

- A. Turn on hot water all the way
- B. Turn on hot water and cold water at the same time
- C. Turn on cold water
- D. Turn on hot water and wait until it is hot. Then turn on cold water



SVE Student Awareness of Fire Education Program

Third Grade Evaluation

Summary:

- Know what is in the test
- Understand link between concepts and test

Administering the test (p 5 in guide)

1. Timing: end of school year (after MCAS)
2. Prepare booklets:

School Name: Center School
Date: 6/21/10
Booklet #: 1

3. Coordinate with teacher

In the classroom:

1. Instruct the students:

- Clear desks
- Take out a pencil
- Look at you

2. Explain the test before you distribute it: p. 6 in Guide

IMPORTANT: if a student does not know the answer to a question, go to the next question.

In the classroom (continued)

3. Distribute the test
4. Read the first page
5. Start test
6. Keep track of time
7. Collect tests
8. Thanks (rewards)

Break

Try it: Write down your own words
to explain the test to students

Summary:

- Know when and how to administer the test

Scoring:

Correct answer = 1

Incorrect answer = 0

Missing answer = 0

Try it: Score tests

Summary so far:

1. How the test was developed
2. What is tested
3. How to administer the test
4. How to score the test

Database^{p. 9 in Guide}

[Excel sample.xls](#)

[DFS SAFE 3rd Grade Test Database MASTER.xls](#)

[DFS SAFE 3rd Grade Test Database SAMPLE.xls](#)

Try it!

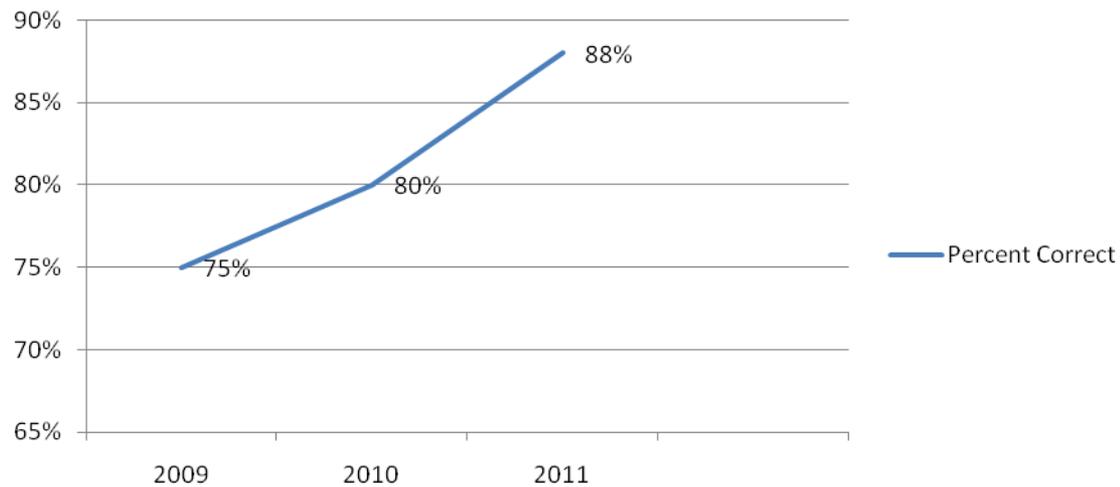
[DFS SAFE 3rd Grade Test Database PRACTICE.xls](#)

Using Results:

- Planning Teaching
- Reporting
- Setting Goals
- Funding
- S.A.F.E. Program Training & Technical Assistance

[DFS SAFE 3rd Grade Test Database SAMPLE.xls](#)

What should you do when the smoke alarm goes off?



TOWN	Questions about smoke alarms: Percent Correct					
	7: Smoke alarm goes off	15: Alarm chirps	16: What should he do	17: What smoke alarm does	18: How often replace batteries?	30: where to put smoke alarms
Westown	74%	67%	72%	67%	62%	59%
Eastown	72%	68%	74%	66%	60%	61%
Nortown	70%	65%	78%	62%	59%	68%
Newtown	76%	80%	77%	82%	82%	70%
AVERAGE	73%	70%	75.25%	69.25%	65.75%	64.5%

Try it: Reporting results and program goals for

- Crawl low under smoke
- Stop – drop – and – roll

Summary:

- The database
- Entering data
- Using results

THANK YOU!