



Protecting Children & Families From Fire

TEACHER GUIDE

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INTRODUCTION

Project Need

Each year, thousands die in home fires and many more are injured. Too many of these fire victims are children. Prevention and early detection are vital. An educational program targeting children can reduce home fire deaths by teaching concepts such as the importance of smoke alarms, how to spot fire hazards in the home, how to create an escape plan, and what to do in a fire emergency.

Purpose, Goals, and Objectives

Interactive Training Media, Inc. has designed an interactive educational tool that exposes elementary school students to engaging and entertaining approaches for home fire prevention and safety. The program offers these children an opportunity to learn or review strategies and techniques for preventing and surviving house fires and pass these ideas along to their parents.

PROGRAM GOALS AND OBJECTIVES

- ✓ Discuss fire hazards such as candles, stoves, heaters, matches, overloaded outlets, frayed electrical cords, and flickering light bulbs
- ✓ Discuss the importance of smoke alarms, especially in maintaining them by checking their functionality and changing batteries
- ✓ Discuss what to do if their clothes are on fire
- ✓ Discuss the importance of knowing 2-ways out of every room
- ✓ Discuss the importance of making an escape plan and practicing fire evacuation
- ✓ Discuss what to do in a fire emergency

CONTENT DESIGN

The Virtual Home

FireSafe Kids centers on a 3-D environment where students explore and click as they walk through a home. When they click on items, such as an outlet or a candle, a graphic appears and audio narration describes the hazard potential of these common household items. The rooms also have hidden puzzles and games to motivate the children to click and learn. A counter counts down clickable hazard information for each room.

Login and Tracking

Students login with basic information (First Name, Age, Zip Code) and this information is held in a database accessible to program stakeholders via an Internet connection. Users can play offline, however, as database information will be uploaded on a subsequent connection to the Internet.

Introduction Video

The video, which occurs after login, introduces the concepts the children will be learning about and gives tips on how to search the house.

Main Menu

The main menu is the home itself. The student begins by the front door (dining room area). Children use the mouse to look in different directions, and the arrow keys to "walk" through out the house. The object of the activity is to click on various items in the house to find the "hot" items and learn about home hazards. Other items that are clicked on either do nothing, indicate a "non-hazard," or allow the children to play a "just for fun" game, such as I Spy.

Other Navigational Buttons

Web Button – Goes to Online Resources Page

Help Button – Opens pop-up help screen with directions

Quit Button – Returns to introduction screen after Closing Video

Closing Video

This summarizes the objectives of the program – the importance of smoke alarms, finding and having adult correct home hazards, making and practicing an escape plan, and knowing what to do in a fire emergency.

Rooms and Instructional Items to Click

Room	Clickable Item	Interaction
Kid's Bedroom	Matches	Audio pop-up
	Lamp	
	Window	
	Smoke Alarm	
	Heater	
	Outlet	
	Desk	Free Fun Game: Coloring Pages
Homework	Content-Related Activity: Vocabulary Matching	
Dining Room	Candle	Audio pop-up
	Lamp	
	Window	
	Fireplace	
	Smoke Alarm	
	Outlet	
	Wall Tapestry	Free Fun Game: I Spy
Garage	Fireworks	Audio pop-up
	Solvents	
	Oily rags	
	Fire extinguisher	
	Window	
	Dart board	Free Fun Game: Play Darts!

Kitchen	Rag	Audio pop-up
	Pot	
	Stove	
	Window	
	Smoke Alarm	
	Fire Extinguisher	
	Kitchen Cabinet	Free Fun Game: Spotting the Difference
Master Bedroom	Candle	Audio pop-up
	Ashtray	
	Window	
	Smoke Alarm	
	Heater	
	Outlet	
	Lamp	
	Newspaper	Free Fun Game: Wordsearch & Crossword
Living Room/Office	Window	Audio pop-up
	Smoke Alarm	
	Firefighter Photo	
	Worn Cords	
	Cord Under Rug	
	Xmas Tree	
	Outlet	
	TV	Content-Related Activity: Videos
	Computer	Content-Related Activity: If Fire Strikes Quiz
		Content-Related Activity: If Fire Strikes Video Activity
		Content-Related Activity: Escape Plan Quiz
		Content-Related Activity: Web Links



Installation Instructions

WINDOWS

1. Insert the disc into your CD-ROM drive.
2. The installation screen should appear in a few moments. If the installation program does not run automatically, click on the CD-ROM icon labeled "FireSafe Kids" and then "Install.exe" to start the installation.
3. Progress through the installation screens by clicking "next."
4. When finished with the installation, restart your computer. Select the icon on your desktop labeled "FireSafe Kids" or use the program group now installed on your Start menu.

MAC OS

1. Insert the disc into your CD-ROM drive.
2. Click the "FireSafe" icon on your desktop.
3. Progress through the installation screens by clicking "next."
4. Restart your computer. A "FireSafe" icon will now appear on your desktop. Click the icon to run the program.

SAMPLE LESSON PLAN

Topic Introduction

- Brainstorm with students about what they know about home fire safety
- Deliver Pre Test and/or have students write a paragraph about what they know about home fire safety
- Introduce vocabulary if appropriate
- Initiate Fire Safety Discussion Topics (Insert here information found on page 17 of TN Safe at Home guide)
- Discuss Fire Safety FAQ

Using the Virtual Home

Install and load computer software (see p. 10).

OPTIONS FOR USE IN THE CLASSROOM

1. Individualized learning by students (Discovery Learning)
2. In groups of 2-3 (reporting back to whole class what each group found and learned).
3. As a whole classroom exercise via a projector having different various students try to navigate and click
4. As a whole classroom exercise with teacher navigation and discussion (playing unlocked games as optional individualized extension activity or reward activity).

FOLLOW UP

Follow up learning activities with discussion, assessments, and extension activities, including a visit from a local fire firefighter /fire safety educator.

ASSESSMENTS

Handout versions are available for photocopying on the following pages. Below is the answer key. Extension activities are on the following page.

Pre/Post Test Answers

- | | | | |
|------|-------|-------|-------|
| 1. b | 6. d | 11. d | 16. a |
| 2. c | 7. c | 12. b | 17. d |
| 3. a | 8. d | 13. b | 18. d |
| 4. a | 9. a | 14. a | 19. b |
| 5. d | 10. c | 15. c | 20. a |

Short Answer Quiz Answers

1. Keep your tree watered and make sure the needles are green and fresh, not dried out. Only turn the tree lights on when someone is in the room. If a bulb or a strand of lights isn't working, don't use them. And never decorate your tree with candles.
2. Change the batteries at least twice a year. Make sure they work and never disable them. If you hear a smoke alarm, get out right away and go to a safe place to call 911. Smoke alarms should be on every floor of the house, especially in and near bedrooms.
3. Make sure they are in a firesafe holder. Blow them out if you leave the room. Never use them to decorate the Christmas tree.

Vocabulary Matching Answers

exposed – showing

hazard – a source of danger

solvent – a liquid, like paint thinner

fire extinguisher - something that can put out a small fire

ventilated – circulated with fresh air

overloaded – too many for safety

frayed – worn away or tattered at the edges

consumed – totally destroyed

escape plan – a plan that you make to get out if fire strikes

combustible – something that easily catches on fire and burns

Extension Activities

1. Have students draw a sketch of their home's floor plan (You can use the Home Escape Planning Sheet found in this guide.) They should place an X where their bedroom is and draw arrows pointing to the path to make 2 ways out of their bedroom. Have them mark an S for the safe spot they will meet their family. Ask them to share their drawings and plans with the class.
2. Ask students to interview their parents and then report back on the following questions:
 - a. How many smoke alarms do we have?
 - b. When is the last time you checked to see if they are working?
 - c. When did you last change their batteries?
 - d. Where would we meet outside if the smoke alarm sounded?
 - e. When can we practice our escape plan?
 - f. If I am in my bedroom and I feel the knob and it is hot I might have to use the window to escape. Can you show me how to do that so I can be sure I can do it?
3. Charades – Have the students play charades by silently acting out potential fire hazards in the home, e.g. candles not blown out when leaving the room, overloaded outlets, fireworks, windows that are nailed shut, fireplaces without screens, heaters that are used to hang wet clothes, leaving the kitchen unattended, using candles as Christmas tree decorations, electric cord under the rug, heaping a pile of rags soaked in solvents, disabling a chirping smoke alarm, etc.
4. Break the children into groups of 2-4. Using the online links site, have each group visit a different online link and report back to the class what they learned from the site. Have the students critique the site using a rating system, reporting back to the class the rating system they chose and why they ranked the site as they did.
5. Ask a local firefighter safety educator to visit your classroom and reinforce the program objectives with the students. Have the firefighter explain the equipment and PPE they use to fight fires, and how they might look and sound different during a fire emergency. Have the students write a paragraph about what they learned from the firefighter visitor.
6. Use the Home Fire Safety Checklist as a homework assignment. Look at examples within the classroom. Have the students write their own checklist of safety items in the home that they want an adult to fix.

Classroom Handouts & Program Transcripts



Name _____

PRE/POST TEST

Date _____

1. How many ways should you plan for to safely get out of a room?
 - a. One is enough
 - b. At least two
 - c. This is something you never have worry about as long as you have a door
 - d. None of the above

2. If you leave a room that has a candle burning, you should
 - a. Ignore it
 - b. Take it with you
 - c. Blow it out
 - d. None of the above

3. Should have a smoke alarm on every level of your home
 - a. True
 - b. False

4. It is a good idea to have smoke alarms in the hallways outside your bedroom and in your bedroom.
 - a. True
 - b. False

5. Smoke alarm batteries should be changed
 - a. Never
 - b. At least twice a year
 - c. When you hear a chirping sound coming from the smoke alarm
 - d. Both b and c



6. It is okay to disable a smoke alarm if
 - a. You are having a party
 - b. It is chirping
 - c. It is raining
 - d. NEVER disable a smoke alarm

7. What should you do if you find matches or lighters in your home?
 - a. Don't worry about it
 - b. Pick them up to see if they are real
 - c. Tell an adult to put them in a safe place away from reach
 - d. None of the above

8. We should never hang items on
 - a. Lamps or lights
 - b. Heaters
 - c. Coat racks
 - d. Both a and b

9. If you have to exit your home through smoke
 - a. Crawl low, under the smoke and keep your mouth covered
 - b. Use your hands to fan the smoke away
 - c. Walk as close to the walls as you can until you reach a door
 - d. Walk backwards to avoid the smoke

10. If your escape route takes you to a closed door,
 - a. Open it immediately and get out as fast as you can
 - b. Look under the door to see if fire is on the other side
 - c. Feel the knob and make sure there isn't fire on the other side
 - d. Try another exit



11. If your clothes catch fire,
 - a. Take them off
 - b. Find a hose
 - c. Get in the shower
 - d. Stop, drop, and roll

12. When is it okay to enter a burning building?
 - a. To save valuable possessions
 - b. You should never re-enter a burning house
 - c. To phone the fire department
 - d. To make sure everyone got out

13. You shouldn't place anything within _____ of portable heaters.
 - a. Two feet
 - b. Three feet
 - c. Three yards
 - d. Four miles

14. Why should you keep electric cords from running under rugs?
 - a. The plastic coating insulation on the cord can rub off and cause a fire
 - b. The cord causes a lump under the rug
 - c. Electricity doesn't flow as well under a rug
 - d. Your mom might think it's a snake and freak out

15. You should practice your escape plan at least
 - a. Once a day
 - b. Once a week
 - c. Twice a year
 - d. Every other Friday



16. Stove tops should be free of cloth and paper items and pot handles should be turned toward the center of the stove.
- a. True
 - b. False
17. What's the best way to keep fireplaces safe?
- a. Put a heavy metal screen in front of the fireplace
 - b. Keep newspapers and magazines away from the fireplace
 - c. Never use a fireplace
 - d. Both a and b
18. If you have to leave a room by a window, make sure that
- a. The window isn't stuck
 - b. You can remove any screens
 - c. Any security bars can be easily opened from the inside
 - d. All of the above
19. If you hear the smoke alarm
- a. Collect your most valuable possessions
 - b. Get out of the house according to your escape plan
 - c. Wait until someone comes to get you
 - d. Hide in your closet
20. If your way out is smoky, crawl low under the smoke. Stay low and go!
- a. True
 - b. False



Name _____

SHORT ANSWER QUIZ

Date _____

1. Explain how to keep your Christmas Tree from being a fire hazard.

2. Explain 3 things you learned about smoke alarms.

3. Explain how you can keep candles from being fire hazards.

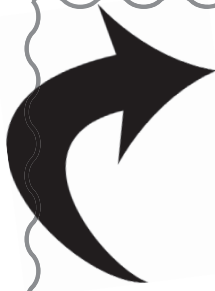


Home Fire Safety Checklist

STUDENT NAME: _____

PARENT NAME: _____

	Yes	No
Are smoke alarms located on every level of your home, in hallways leading to sleeping areas, and in each sleeping area?		
Does your family replace the batteries twice a year and test the smoke alarms each month?		
Are there any damaged electrical cords or plugs in your home?		
Are there any electrical cords running under carpets, through doorways, or near heaters in your home?		
Are things that can catch fire at least three feet away from heaters or fireplaces?		
Are fireplaces covered with screens or glass doors to keep sparks from escaping?		
Are there any matches or lighters lying around your home?		
Are there working fire extinguishers in your home?		
Have you and your family created and practiced an escape plan to help you get out of your home in case of a fire?		
Do you know how to stop, drop, and roll?		

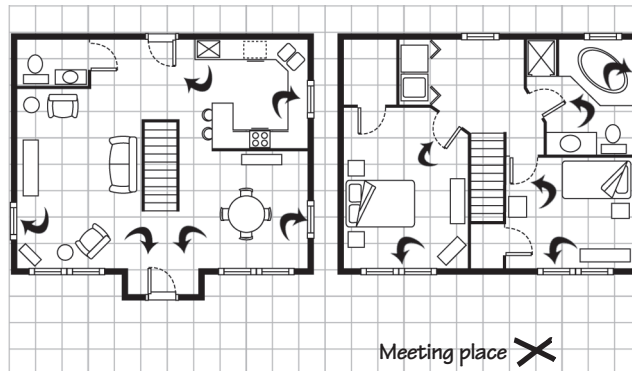


Home Escape Plan

CREATE YOUR HOME FIRE ESCAPE PLAN BELOW.

- ▶ Draw a simple floor plan of your home. Show all doors and windows.
- ▶ Show two ways out of each room.
- ▶ Label a meeting place outside where everyone should meet.

EXAMPLE:





Dos and Don'ts

CUT OUT THESE LISTS AND POST THEM IN YOUR HOME AS A SAFETY REMINDER.



Home Fire Safety

Do...

Locate and maintain smoke alarms outside of each sleeping area and on each floor.

Test your smoke alarms monthly and replace the batteries at least twice a year.



Keep things that can catch fire at least three feet away from heaters or fireplaces.

Cover fireplaces with screens or glass doors to keep sparks from escaping.

Keep working fire extinguishers in your home.

Create and practice an escape plan to help you get out of your home in case of a fire.

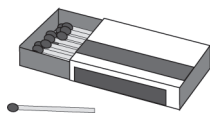
Don't...

Use damaged or frayed electrical cords or plugs.

Run electrical cords under carpets, through doorways, or near heaters.

Overload electrical outlets with multiple cords.

Keep matches or lighters lying around your home.



Kitchen Fire Safety

Do...

If you have to leave the kitchen while cooking, take something with you to remind you to return.

Use a lid, baking soda, or fire extinguisher to put out a grease fire.

Turn pot handles to the middle of the stove.



Keep the stove free of anything that can catch fire, such as dish towels, napkins, and paper towels.

Don't...

Use water to extinguish a grease fire.

Wear loose, dangling sleeves while cooking.

Use the stove or oven to heat your home or to dry wet clothes.



Name _____

VOCABULARY MATCHING

Date _____

OVERLOADED

HAZARD

EXPOSED

FIRE EXTINGUISHER

ESCAPE PLAN

FRAYED

SOLVENT

COMBUSTIBLE

VENTILATED

CONSUMED

- _____ Showing
- _____ A source of danger
- _____ A liquid, like paint thinner
- _____ Something that can put out a small fire
- _____ Circulated with fresh air
- _____ Too many for safety
- _____ Worn away or tattered at the edges
- _____ Totally destroyed
- _____ A plan that you make to get out if fire strikes
- _____ Something that easily catches on fire and burns

OTHER RESOURCES

Online Links

SITE NAME	URL ADDRESS
FireSafe Kids	www.itm-info.com/firesafekids
U.S. Fire Administration	www.usfa.fema.gov/kids
Sparky for Kids	www.nfpa.org/sparky
Kids Fire Safety Tips	www.kfst.net
Smokey Bear	www.smokeybear.com
Safe Kids Campaign	www.safekids.org
Kids Health	http://kidshealth.org/kid/watch/er/fire_safety.html
Fire Kids!	www.firestories.com/Fun%20Page.htm
The Police Notebook	www.ou.edu/oupd/fslist.htm
A to Z Home's Cool	http://homeschooling.gomilpitas.com/explore/fire.htm

Fire Q&A

Q. How fast is fire?

A. In less than 30 seconds a small flame can get completely out of control and turn into a major fire. It only takes minutes for thick black smoke to fill a house. In minutes, a house can be engulfed in flames.

Q. What color is fire?

A. Pitch black! Fire starts bright, but quickly produces black smoke and complete darkness. If you wake up to a fire you may be blinded, disoriented and unable to find your way around the home you've lived in for years.

Q. How do people usually die in fires?

A. Smoke and toxic gases kill more people than flames do. Fire uses up the oxygen you need and produces smoke and poisonous gases that kill. Breathing even small amounts of smoke and toxic gases can make you drowsy, disoriented and short of breath. The odorless, colorless fumes can lull you into a deep sleep before the flames reach your door. You may not wake up in time to escape.

Q. How hot is a room on fire?

A. A fire's heat alone can kill. Room temperatures in a fire can be 100 degrees at floor level and rise to 600 degrees at eye level. Inhaling this super hot air will scorch your lungs. This heat can melt clothes to your skin.

Q. What is a "flashover?"

A. This is where a room can get so hot that everything in it ignites at once: this is called flashover. This can happen in less than 5 minutes.

Q. In a fire emergency, which should we do first, escape the fire or call for help?

A. Escape the fire first if at all possible. Then go to a safe place to call 911.

Q. How do you get out in a fire emergency if there is smoke everywhere?

A. Get down on your knees and crawl. Remember, heat and smoke rise. Cover your mouth and nose with your shirt or a cloth and crawl to safety. You should practice doing this with your eyes closed because chances are you won't be able to see because of smoke in a real fire emergency.

Q. Is it okay to go back inside a burning house to rescue my pet?

A. NO! Never enter a burning building. Call 911 from a safe place and let them know where your pet is inside.

PROGRAM TRANSCRIPTS

TBD

TBD