

Fire Prevention and Risk Reduction Program

CHAPTER OVERVIEW

Every year, children die in fires and others are seriously injured. These are the unfortunate statistics that haunt the fire service. However, there is a solution: fire prevention and education. Successful fire prevention reduces the risk before there is a need for technology, gear, or equipment.

After students attend this course, they will understand the basic premise of fire prevention. Students will also know what is required to maintain smoke alarms; what is needed in a home escape plan; understand how fire works; know what to do in school emergency drills; how to safely use candles; and review safe practices while cooking.

OBJECTIVES AND RESOURCES

Knowledge Objectives

After teaching this grade, students will be able to:

- Talk about fire safety in public buildings
- Know what to do if there's a fire in their home using an escape plan
- Understand Smoke and CO Alarms
- Know what to do in a school drill
- Understand how to properly use candles
- Know what to do if there's a fire in the kitchen
- Understand safety precautions to take when using space heaters
- Know Fireworks safety

Skill Objectives

After teaching this grade, students will be able to perform the following skills;

- Participate in School Emergency Drills Appropriately
- Go home and practice their escape plan
- Go home and help family conduct a safety survey

Common Core

The following common core objectives are met with this program

- Mathematics Geometry: Reasoning with shapes and their attributes. Students will reason by defining attributes versus non-defining attributes. An example is smoke alarms are circular and closed.
- National Standards for Physical Education: Students will perform locomotor skills when practicing stop-drop-and-roll as well as maintaining balance during activities.
- National Health Education Standards: Students will discuss healthy practices in their homes to maintain personal health. Examples include limiting fire dangers in the home to prevent fires and injuries and knowing how and when to escape in the event of a fire.

Reading and Preparation

- Review “Knowing Fourth Graders”
- Review the objectives for this grade
- Review supporting material as needed

Support Material

- LCD Projector, Overhead Projector, Smart Board, or Projection Screen
- Fire Safety Tool Box
 - Videos on Flash Drive
 - An assortment of Dry Erase Markers
 - Props that demonstrate fire safety hazards

Enhancements

- Additional support material is available at the teaching channel www.teachingchannel.org
- Utilize transitions when switching topics. You may want to ask teachers how this works and review the following <http://www.teachingchannel.org/videos/managing-transitions>
- Additional enhancement material is available at the National Fire Academy website www.usfa.fema.gov
- Support material for Sparky can be found at www.sparky.org

TEACHING TIPS AND ACTIVITIES

- It is imperative that the instructor believes in fire prevention and public education efforts. The attitude of the instructor toward the material is critical in fostering an environment where the students can appreciate the significance of the material.
- Having supporting material and props, such as lighters, smoke alarms, pictures, and videos will help permanent learning occur.
- Meet with the teacher prior to your presentation to gather information on the best ways to teach his/her class
 - Is there a student of the day that can be used to help?
 - Are there transitions that work well for them?
 - How does the teacher streamline questions and comments?
 - Are there any problem children in the class and how does the teacher work with them?

PRESENTATION OVERVIEW

Total time: 40 Minutes	Activity Type	Time	Content
Welcome			
Introduction	Discussion	5 minutes	Meet Teacher / Introduction
Lecture			
I. What are we here for?	Lecture/Discussion	2 minute	Fire Safety
II. What Is Fire Prevention?	Lecture/Discussion/ Demonstration	2 minutes	Interaction With Students
III. Fire Prevention Discussion	Discussion	10 minutes	EDITH, Smoke Alarms, CO Alarms, 911, School Drills, Public Buildings
IV. Videos/Discussion Space Heaters (2:24) Kitchen Safety (2:10) Bedroom Fire Safety (3:57)	Videos/Discussion	10 minutes	Review each video (time allotted) and discuss each one with the students
V. Activity	Lecture/Discussion	5 minutes	Home Safety Take Home Survey
Practical			
I. Fire Truck Show and Tell	Individual Activity/Small Group Activity/ Discussion	10 minutes	Fire Truck Show and Tell
II. Thank You	Discussion	1 minutes	

WELCOME

Introduction

Time: 5 Minutes

Content: Meet teacher and Students

Activity Type: Discussion

Purpose

Use the introduction time to introduce yourself to the teacher and students. This time can be used to learn about the students in the class and the transitions the teacher uses to manage the students.

Instructor Directions

1. Introduce yourself and your crew to the teacher
2. Ask the teacher if there is anything in particular you should know about the students (see teaching tips above)
3. Once the teacher introduces you to the students, you can introduce yourself and crew
4. When possible wear your department uniform

LECTURE

I. What are we here for?

Time: 2 Minutes

Content: Fire Safety

Activity Type: Lecture/Discussion

Purpose

To allow students an opportunity to explore the significance and concerns associated with fire prevention and public education. Use this time to understand what the students already understand

Discussion Topics

1. Ask the students why they think you are there
2. Once given a minute you can explain you are there to teach fire prevention

II. What is fire prevention?

Time: 2 Minutes

Content: Prevention of fires, and reduction in injuries

Activity Type: Lecture/Discussion

Purpose

This section explains what fire prevention is and why it is important to the students. You can utilize the discussion topics in a questions and answer basis or in a lecture format

Discussion Topics

1. Our number one goal is to stop fires from occurring
2. Most fires are an accident and can be prevented
3. Our second goal is to provide the students with direction on what to do if a fire does happen
4. PFD teaches kids of all ages, parents, and grandparents fire prevention

III. Fire Prevention Discussion

Time: 10 Minutes

Content: Review EDITH, Smoke Alarms, CO Alarms, 911, School Safety Drills, and Public Building Safety

Activity Type: Video/Demonstration

Purpose

To provide an explanation of fire prevention to the 4th grade level in a way they can relate and understand. Use this time to review what the students already understand and provide more information in the areas where they could use help. Do not stay on one topic too long if they understand it.

Discussion Topics

1. EDITH (Exit Drills In The Home)
 - a. Review Two ways out, stay low, and meeting places
2. Smoke and CO Alarms
 - a. Review the importance and how to test each one
3. How and When to Call 911
4. Discuss the importance of school safety drills and how they should participate
5. Review fire safety in public buildings
 - a. Two ways out
 - b. Sprinkler Systems
 - c. When to use pull stations

IV. Videos

Time: 10 Minutes

Content: Space Heater Safety, Kitchen Safety, Bedroom Fire Safety

Activity Type: Video/Discussion

Purpose

Use this time to review the common fire hazards within the home. Watch each video individually and discuss the main points. Students at this age find fire intriguing. The students at this age are visual learners and the videos should help show how fast fire can become out of control and dangerous.

Discussion Topics

1. Space Heater Safety
 - a. Plug Directly Into the wall
 - b. Always be present when using
 - c. Keep everything at least 3 feet from the heater
2. Kitchen Safety
 - a. Discuss why water and oil do not mix (Students at this age should understand basic chemistry)
 - b. Discuss what to do if there is a fire in the kitchen
 - i. Exit the home immediately
 - ii. Call 911
 - iii. Do not put water on the fire
3. Bedroom Fire Safety
 - a. Cleanliness of bedroom
 - b. How fast fire spreads
 - c. Hazards such as extension cords and candles

V. Fire Prevention Activity

Time: 5 Minutes

Content: Common fire safety hazards

Activity Type: Discussion

Purpose

Use this time to provide the students with a hands on approach to fire safety related to common fire safety hazards in the home. The 4th grade students possess positive energy and enthusiasm to learn. Use this positive energy when talking with the students and know their attention span may be shorter than their ambition to share stories. Review the basic fire safety hazards within the home and explain to them that they will conduct a fire safety survey at home with their parents. After the safety survey is completed and turned in to the teacher, they will be rewarded.

Discussion Topics / Activity

1. Discuss Fire Safety Hazards in the home
 - a. Smoke alarm work
 - b. Electrical Cords in good condition and grounded
 - c. Electrical Cords are not used as permanent wiring
 - d. Appliances and lights are plugged into separate electrical outlets
 - e. All escape routes are clear of clutter
 - f. Stovetops are clear of combustibles
 - g. Portable space heaters follow the above safety precautions
 - h. The clothes dryer has a clean vent and filter (No Lint Build-up)
 - i. A grownup stays in the kitchen whenever food is cooking on the stovetop
 - j. The furnace has been inspected in the past year
 - k. The chimney has been inspected and cleaned in the past year
2. Pass out Sparky's "My Fire Inspection Checklist"
 - a. Direct the students to take it home and complete it with his/her guardian
 - b. The students parent or guardian should sign it and have the student return it to the teacher
 - c. Provide free desert/meal coupons to teacher to pass out once the student returns the signed checklist
 - d. After a few weeks, retrieve any unused coupons from the teacher

PRACTICAL

I. Fire Truck Show and Tell

Time: 10 Minutes

Content: Show the truck and tell the kids about the equipment

Activity Type: Group Activity

Purpose

To allow the students an opportunity to look through the truck and see the tools we use. Additionally, you can use this time as an opportunity to meet the Common Core objectives in mathematics by adding lengths of hose on the truck.

Instructor Directions

1. Prior to going outside, set some ground rules for keeping track of the students. The teacher may be able to help with this.
2. Go through the outside cabinets of the truck and explain what the tools are used for. Try to provide examples that relate to the students. An example would be, we have ladders to get to the second story of your house or fans to cool the house just like the fans in the ceiling of theirs.
3. At some point, have the kids add the amount of hose the truck carries. You may simplify it by removing the tenth (10 instead of 100 and 5 instead of 50)
4. Show the students the inside of the truck

II. Thank You

Time: 1 Minute

Content: Thank the students for their attention and provide handouts for them to take home

Activity Type: Lecture

Purpose

This time is used to thank the students and teachers for their time and attention. Prior to this part of the presentation, you may want to ask the teacher if he/she would like them to take a picture of their class.

Instructor Directions

1. Thank the students and teachers for their time and attention
2. Take a picture of the class
3. The students may want to look at the truck (Depending on time)
4. When leaving you may want to show lights and sirens