

Fire Safety for Texans

Fire and Burn Prevention Curriculum Guide Developed by Texas State Fire Marshal's Office Texas Department of Insurance

Fifth Grade

Charged Up For Fire Safety

Fire Safety for Texans

The complete series from the State Fire Marshal's Office

Kindergarten

Fire Safe Together

First Grade

Fire Safety: Any Time, Any Place

Second Grade

Making Me Fire Safe

Third Grade

Positively Fire Safe

Fourth Grade

Fire Safety: Stop the Heat

Fifth Grade

Charged Up For Fire Safety

Sixth Grade

Fire Safety Power

Seventh Grade

Responsible For Fire Safety

Eighth Grade

Fire Safety's My Job

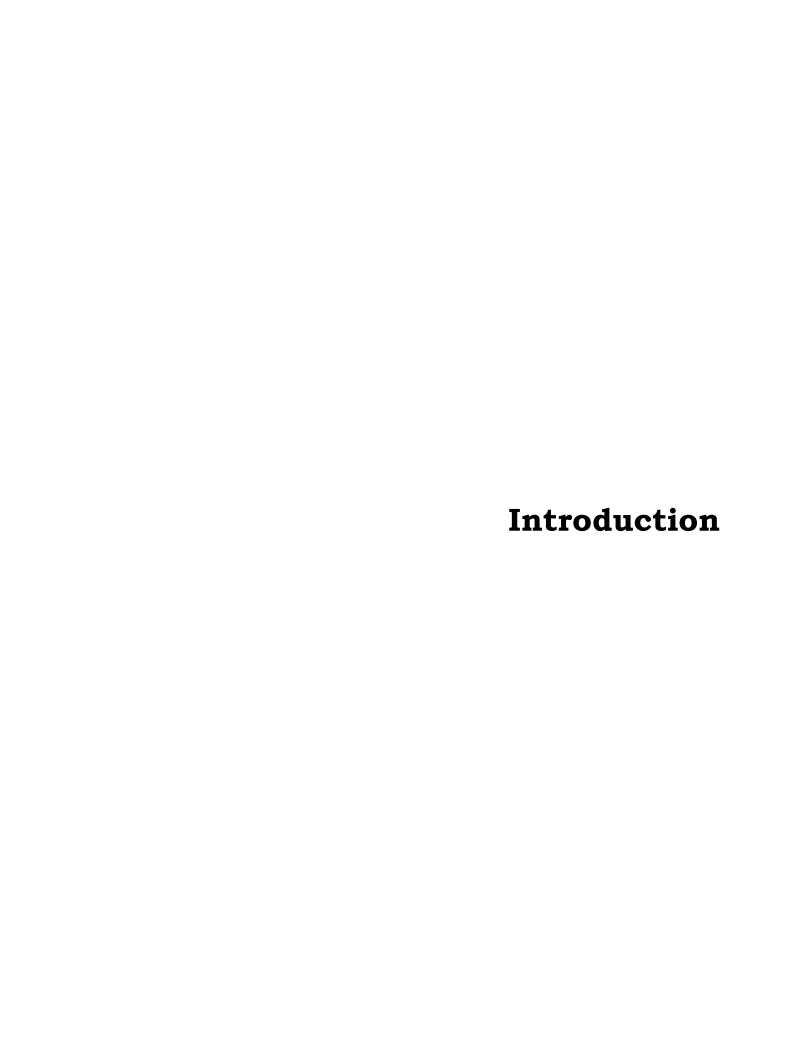
Health (High School)

A Lifetime For Fire Safety

Economics (High School)

Fire Safety For Consumers

Published December 1993, revised February 1999. Texas State Fire Marshal's Office, G. Mike Davis, State Fire Marshal. PO Box 149221, Austin, TX 78714-9221, 512-305-7900. The State Fire Marshal's Office and the Texas Department of Insurance do not discriminate on the basis of race, color, national origin, sex, religion, age or disability in employment or activities. For additional fire prevention information, contact the State Fire Marshal's Office. This publication may be reproduced in its entirety. Such reproduction must include credit to the original producer, specifically the State Fire Marshal's Office. Copies of this publication have been distributed in compliance with the State Depository Law and are available for public use through the Texas State Publications Depository Program at the Texas State Library and other state depository libraries.



Introduction

Why teach fire and burn prevention?

- Each year during the past decade, about 300 Texans have died in fires. The State Fire Marshal's Office is committed to reducing this alarming statistic. Analysis of fire statistics shows that the vast majority of fires and the resulting fire deaths could have been prevented. Regretfully, most people do not know or practice even simple actions that can prevent fires and burns.
- The State Fire Marshal's Office believes the key to reducing fires and fire deaths is education. Fire safety education has traditionally been concentrated in elementary school observances of Fire Prevention Week. While these observances can produce effective results, thoughtful analysis of the fire problem and fire safety educational programs shows that a more comprehensive, age-appropriate approach to fire safety education can multiply its benefits.
- Recognizing the limits of classroom instruction time, the State Fire Marshal's Office has examined the Texas essential elements of instruction to determine the most appropriate topics with which to integrate fire prevention and fire safety. Teachers from across the state have provided feedback on topics appropriate for each grade level, kindergarten through high school.
- The result of this extensive research is "Fire Safety for Texans," a series of curriculum guides teaching fire and burn prevention. Each grade-level program has been coordinated with essential elements in that grade and with the unique specific fire safety needs of that age group. The lesson plans have been field tested in classrooms across the state. On average, students who have been taught using these materials score 26 percent higher than students in control groups.
- As you use this guide, you and teachers in other grade levels will be part of a continuum of fire safety education spanning all grades. The State Fire Marshal's Office believes this continuum will help create a generation of Texans who will be fire-safety aware. In turn, all Texans can benefit from a decrease in the number of needless fire deaths and an increase in safer homes and worksites a benefit we all deserve.

This Booklet

This booklet, "Charged Up For Fire Safety," is specifically designed for fifth-grade students. The following sections give specific information on the essential elements applicable to fire and burn prevention and on the age-specific needs of fifth-grade students related to fires and burns. You will also find additional

information on the format and materials found in this booklet.

This booklet has three sections:

- Lesson Plans. This section includes all steps in the lesson cycle.
- Teacher Materials. This section includes all teaching aids and tests.
- Student Materials Duplicating Masters. This section includes master copies of materials to be used by students.



To analyze the impact of fire on outdoor environment and methods to reduce that impact

To develop awareness of first aid for burns

To explore one's personal relationship to community fire safety

- **Essential Elements:** The student will be provided opportunities to:
- §75.28 (f) 2D. observe phenomena resulting from the life, earth, and physical sciences.
- §75.28 (f) 6A. predict the outcomes of actions based on experience or data.
- §75.28 (f) 6E. draw conclusions from observed data.
- §75.28 (f) 7B. relate classroom objects, science principles, and activities to daily life.
- §75.29 (f) 1G. identify ways to care for the principal body systems.
- §75.29 (f) 1H. recognize hazards in the environment, and acquire knowledge and skills needed to avoid injury and to prevent accidents.
- §75.29 (f) 2A. recognize benefits and limitations of advertising as it relates to selection of health ... products.
- §75.29 (f) 2D. recognize need for first aid.
- §75.29 (f) 3A. identify locally available voluntary health agencies.
- §75.29 (f) 3B. recognize interdependence of people and the environment, and recognize personal responsibility for protecting the environment.
- §75.32 (f) 2B. explain why conservation of economic resources is important.
- ** Science Content: Content from the sciences that shall be emphasized at the grade level shall include:

Earth Science

2.2 geology ... agents of weathering, erosion and deposition.

2.6 meteorology ... effects of weather change and severe weather types ... effects of weather on human activities.

Background: Age Profile

- Stage of industry vs. inferiority, which means the child needs to stay constructively busy. Because many differences in abilities are becoming more evident, comparisons among children should be avoided.
- Areas of development include neuromuscular and social. The child is developing many new physical skills, both gross and fine motor skills. He is making a social move from the home into peer groups and school. He is developing his own self-attitudes and seeks significant human relationships.
- Operating under the morality of cooperation, the child sees rules as mutual agreements made by those affected and involved in the situation. She tends to obey rules out of respect. The child can understand causes and consequences of actions.
- The child is capable of concrete operations, which means he can solve a variety of problems using concrete objects, and may be capable of formal operations, in which concrete objects are no longer needed for problem solving. He must be active in the instructional process, and activities and materials must be relevant to the child's life or environment. Instruction will be more effective if it involves both the affective and cognitive domains.
- The fifth-grader is interested in social, occupational and civic matters. She is becoming able to move from the simple to complex, concrete to abstract, undifferentiated to differentiated, discrete to organized.

Fire And Burn Hazards

- Curiosity about fires playing with matches and lighters, candles, fireplace, heaters, other locations where the child can observe a flame; overconfidence in dealing with fires.
- Scalds cooking; tap water; hot foods, especially heated sweet foods.
- Appliances cooking at stoves or with microwave ovens, especially unsupervised; overconfidence in using appliances, such as irons, toasters, etc.
- Clothing ignition playing with matches; flammable clothing and costumes; walking or sleeping too close to heater or other open flame; knowing how to reduce injury.
- Outdoor hazards campfires and barbecues; mini-bikes and lawn mowers; fireworks; high-tension wires.

- Other flammable liquids; fires caused by parents' smoking; injury from smoke and fire gases; knowing how to escape from fire.
- Teacher's Note On Materials: Illustrations and activity sheets in this booklet are intended for use as masters. Photocopy them and use as directed.
- Pre-Test and Post-Test: Administer the pre-test prior to the first lesson and the post-test after the final lesson.
- **Teacher's Note on Closure Activities:** Some activities included in the closure phase of the lesson cycle may be effectively used in the next lesson's focus activity.
- **Key To Icons:** The following icons can be used to easily identify activities in the lesson plans:



Lesson objectives



Focus and closure



Creative group activity, including role playing



Lecture



Demonstration



Group problem-solving activity



Answering questions



Guest presenter



Investigation or research



Creative writing activity



Cut-and-paste activity



Group discussion



Drawing, artwork or illustration



LESSON ONE:

Charged Up For Home Safety

Goal: To explore how to use heating equipment safely in the home



Objectives: The student will:

- · explain hazards of heating equipment, including safety considerations such as UL inspection certification and proper placement *28(f)7B, 29(f)1H, **2.6
- analyze safety of alternative heating 28(f)6E, 29(f)1H), **2.6
- conduct inspection of home heating equipment with parents to check for safe usage *28(f)7B, 29(f)1H, **2.6

Materials: Pre-test (p. 13); "Warm, But Not Too Hot" activity sheet (p. 24); "Charged Up For Home Safety" investigation activity (p. 25); answer key (p. 21).



Focus: Administer pre-test.

Introduce unit by discussing energy. Have students list some possible sources of energy (electric power plants, from sun, from burning logs, "brain power"). Discuss ways this energy can be used. Tell students that their knowledge of fire prevention gives them energy to create a safer environment for themselves, their friends and their families.

Present general objectives:

To explore heating equipment safety

To analyze the impact of fire on outdoor environment and methods to reduce that impact

To develop awareness of first aid for burns

To explore one's personal relationship to community fire safety

Present lesson objectives (see paragraph above).



Presentation Of Content: Teacher: "People

become very interested in energy when winter comes. They use energy for certain types of equipment to help stay warm. What are these? (Heaters) Why do we use heaters? (To stay warm.) What kinds of heaters do people use? (List on chalkboard.)"

Discuss types of heating equipment used in the classroom.

Review three elements of fire: heat, fuel and oxygen. Point out that heaters have all three elements. Ask what would happen if something that could burn — a fuel gets too close to a heater. (It would catch fire.)



Guided Practice: Distribute "Warm, But Not Too

Hot" activity sheet. Have students read the description of each type of heater, then cut out and paste the heaters in the correct location. Have students draw a circle around the type that is least likely to cause a fire and put on X on any heater that could easily cause a fire or burn. (Answers might vary, depending on students' home environments.) Have students explain their selections.



Independent Practice: Distribute "Charged Up

For Home Safety" activity sheet. Have the students read the instructions, then take home to complete the activity.

NOTE: Base evaluation on student's willingness to participate in improving their home safety. Do not evaluate on the bases of the responses to the survey.

Reteaching: Invite the school custodian or safety director to tell the students about heating equipment used in the school. Have him/her describe its power or fuel source, then describe what safety precautions are used to prevent fires.



Enrichment: Have students contact a heating equipment maintenance company. Have them ask a company representative to describe his/her job.



Closure: Have students describe their experiences with the heating equipment inspection. Ask students to summarize what they have learned about how the winter can influence their lives.

Introduce the next lesson by telling students that they will explore ways to prevent fires in another environments - the outdoors.

LESSON TWO:

Charged Up To Save The **Outdoors**

Goal: To apply knowledge of outdoor fire prevention to conservation of natural resources



Objectives: The student will:

- · describe impact of grass and tree fires on land forms *28(f)6E, **2.2
- list steps in safe procedures for burning debris and cooking on charcoal, campfire, grill *29(f)3B
- give examples and application of cleaning trash and brush to reduce fire hazard *29(f)3B

Materials: "Who Protects The Great Outdoors" illustration (p. 14); "What's Going To Happen?" illustration (p. 15); writing paper.



Focus: Display the "Who Protects The Great Outdoors" illustration.

Teacher: "Weather affects our lives very much. In our last lesson, we talked about how people adapt to cold weather. We can even protect ourselves from storms and rain. But the grass, trees and soil cannot protection themselves, so we must do all we can to make sure that things we do don't cause the outdoors any more harm."

Outline lesson objectives (paragraph above).



Presentation Of Content: Display the "What's

Going To Happen?" illustration. Have students describe what they see. Tell them to imagine that vacationers left trash around house then left trash burning.

Divide students into small groups. In groups, have students predict what will happen to the land after the fire. (The house had to be rebuilt. Rains eroded the soil so nothing could grow. The animals who lived in the nearby woods had no place to live. Other reasonable answers may be accepted.)



Guided Practice: In groups, have students list what the people should have done to prevent unintentional fires caused by useful outdoor fires.

Have each group select its own specific topic building campfires, cooking on a campfire or grill, or burning trash — then write four steps for preventing an unintentional fire.

Have groups exchange and compare lists. Note any similarities.

Suggested responses:

Building campfires

- 1. Clear a large area of all grass and leaves.
- 2. Circle the area with rocks, or dig a shallow hole.
- 3. Arrange logs (or other fuel), and have an adult light the campfire.
- 4. Completely put out the fire with water.

Cooking on a grill (charcoal or gas)

- 1. Have an adult check the grill to be sure it's safe.
- Follow directions when operating the grill.
- 3. Never operate indoors, only outdoors with little or no
- 4. Never leave cooking unattended.

Burning trash

- 1. Clear a large area of grass and brush.
- 2. Use a barrel with a screen lid.
- 3. Burn only when there is no wind.
- 4. Put the fire out completely.

Accept other reasonable responses.



Independent Practice: Tell students that

buildings with trees, brush or grass near them can easily catch fire if there is a grass or brush fire. Discussion might include the California brush fires of 1991 and 1992 that destroyed hundreds of expensive homes.

Have students look for places with trash and brush close to a building. Have them write a paragraph describing how the area should be cleaned and what might happen if a fire starts because the area was not cleared.

Evaluate students on their awareness of outdoor fire hazards. and the dangers of allowing unsafe conditions to continue.



Reteaching: List the following on the chalkboard or a transparency.

- 1. No wind.
- Clear the area.
- 3. Have water ready.
- 4. Put out any fire completely.

Have students go through the list and describe how it might apply to all the type of fires discussed in Guided Practice.



Enrichment: Have students research the California fires that began as small brush fires and eventually destroyed homes and property worth several million dollars.

Invite a fire department representative to discuss the wildland-urban interface in your area.



Closure: Briefly discuss what students found during the Independent Practice activity. Encourage students to share the activity with their families, especially if they notice fire hazards near their homes.

Teacher: "In the first two lessons, we have learned about two important areas of fire safety — heaters and the outdoors. In our next lesson, we will study other ways to help prevent fires."

LESSON THREE:

Fire Hurts The **Entire** Community

Goal: To explore how each person and family can hurt community safety, especially through negative actions such as false alarms or arson



Objectives: The student will:

- · identify hazard of false alarms, especially relating to wasting resources *32(f)2B
- describe hazards of intentional fires, especially relating to waste and loss of resources *32(f)2B

Materials: "Our Community" overhead transparency (p. 16); "Fire Hurts Us All" group discussion activity (p. 26); materials to make illustrations and collages: answer keys (pp. 21-22).



Focus: Walk around the room, putting students' books, pencils and other small items into a box and saving, "Hey, you don't need that. No, you don't need that. This is fun ... You don't need that either."

- Ask students how they felt when their items were taken (sad, angry, frustrated).
- Teacher: "Fire protection professionals feel the same way when they feel that their services are being wasted. In this lesson, we'll learn ways to help our community by stopping false alarms and arson."

Outline lesson objectives (see paragraph above).



Presentation Of Content: Show "Our

Community" overhead transparency.

- Teacher: "People in communities depend on each other. We all contribute to the community through our taxes to make our community a safe and pleasant place to live. The community spends its money on needed services, such as the police and fire departments. It spends some money on enjoyable services, such as museums and parks.
- "Fire departments are expensive. Fire fighters must answer every call, and every call costs money. Even when the call is a false alarm, the fire department must answer it and money is spent. When more money must be spent on the fire department, less money can be spent on non-vital services such as the park.
- "Everyone in the community pays taxes shoppers, business owners, homeowners. When a store burns, the business owner can't sell any products, the workers can't earn their money, and the business owner might not be able to pay his taxes. That business fire caused less taxes to be going to the community and MORE taxes have to come from the rest of the community."



Guided Practice: Distribute "Fire Hurts Us All." Option: Divide students into small groups to complete this activity.

Read and discuss each paragraph. In each item, emphasize that cities and companies are very concerned about how their money is used.



Independent Practice: Have students prepare illustrations or collages that tell (1) what arson or a false alarm is or (2) why arson and false alarms are wastes. Students may clip headlines and pictures from newspapers and magazines to use as examples in their illustrations.

Evaluate students on their awareness that arson and false alarms are crimes and wasteful for the community.

Reteaching: Invite a fire department representative to discuss false alarms. Ask the representative to

describe how a fire department response to fire emergency calls.

Invite an arson investigator or juvenile fire setter counselor to discuss the problems caused by children who play with matches or fire.

Enrichment: Have the students conduct a poll of their friends or classmates to find out their opinions of arson and false alarms. Have them prepare a chart to show their findings.

Post the illustration created by the students in the Independent Practice activity in the school or other public area.

Closure: Ask students to define arson and false alarms. Ask how arson and false alarms hurt a community (by wasting resources). Have students share their experiences in creating their

collages/illustrations.

Teacher: "In this lesson, we learned how the actions of one person can hurt the community. In our next lesson, we will look at two ways that each of us can help our community become more fire safe."

LESSON FOUR:

We All **Contribute To** Community Safety

Goal: To explore how each person can help community safety, especially through fire exit drills and volunteer work



Objectives: The student will:

- · describe role of volunteer fire department in the community *29(f)3A
- evaluate school exit drill *28(f)2D,6A, 29(f)1H

Materials: "We're Ready" overhead transparency (p. 17); "We're Ready" discussion activity (p. 27); "Fire Exit Drill In Action" role-playing cards (p. 18); "How Prepared Are We?" observation activity (p. 28); answer key (p. 22).



Focus: Put chorus of "We're Ready" on chalkboard. or if using overhead, display with only chorus showing. Have all students read aloud, with beat as a rap verse. Tell students that in this lesson they'll learn how to be

Outline lesson objective (see paragraph above).



Presentation Of Content: Distribute "We're

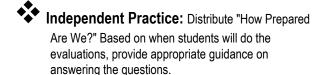
Ready" activity sheet. Re-read chorus, and answer question. Read first verse, then read and discuss questions. Point out that "word from the top" means special instructions from the teacher. Add that they must go to their assigned areas and wait.

Read second verse. Explain which type of fire department protects the local community. Point out that many students who live in rural areas have a volunteer fire department. Emphasize that volunteer fire fighters are not paid. Discuss why volunteers might work without pay (They know they help their community and friends. They want to contribute to an important organization.)



Guided Practice: Role-Playing Activity: Divide students into groups of six to eight. Distribute roleplaying cards. Have students read the cards, then act out what the cards describe. Emphasize the need to work together willingly, as members of a volunteer fire department do, while reinforcing effective habits for fire exit drills.

Allow 10-15 minutes for this activity, allowing students to exchange roles and re-play the situation. Then have students describe their experiences in various roles.



NOTE: During this activity, students will evaluate a fire exit drill in the school. The teacher may select one of the following options:

- 1. Have students look back at their most recent schoolwide drill.
- 2. Schedule the activity for the next school exit drill.
- 3. Conduct a fire exit drill for his/her own classroom only and have students evaluate themselves.
- Work with another teacher to hold individual classroom drills and have students evaluate the other class.

Reteaching: Invite a fire safety instructor or fire

fighter to discuss what can happen if students do not participate properly in a fire exit drill. Ask the fire fighter to observe and evaluate a fire exit drill.



Enrichment: Have students organize their own

"volunteer fire department" in the school. Encourage them to explore various roles or positions, such as fire marshal, inspector and monitor, to help the campus administration conduct fire exit drills.

Invite the chief or a member of a local volunteer fire department to describe qualifications for becoming a volunteer fire fighter.



Closure: Ask students to share their evaluations of

the fire exit drill. Have them point out positive actions of other students, as well as actions that need improvement. Ask students if they will make any changes themselves in how they act during exit drills. Prepare for final lesson by telling the students that they will be learning about what to do in another emergency situation — suffering a burn.

LESSON FIVE:

Fire Safety For Yourself

Goal: To examine appropriate first aid for burns and to examine product safety related to fires and burns



Objectives: The student will:

- describes three classes of burns and first aid for each *29(f)1G.2D
- analyze produce advertisements for fire and burn safety information *29(f)2A
- gives examples of correcting holiday hazards *29(f)1H

Materials: "Fire And Burn Safety Alert" overhead transparency (p. 19); "Charged Up For Burn Safety" activity sheet (p. 29); post-test (p. 20); answer keys (p. 21-22).



Focus: Draw an octagon on the chalkboard. Ask students what that shape is a symbol for. (To stop while driving or riding a bike.) Have students list other

signs and symbols they see. (EXIT, traffic light, Do Not Enter.)

Teacher: "Many of these signs are used for our safety. Some signs and symbols are used to tell us about fire and burn safety. In our earlier lessons, we learned some important ways to prevent fires and burns. Now, we'll learn some new things to help in care there is a fire and someone is burned."

Outline lesson objectives (paragraph above).



Presentation Of Content: Lead discussion of

the definition of a burn — damage to the body caused by heat. Tell students that medical professionals classify burns by "degrees" depending on how much the skin has been damaged.

Teacher: "Not all burns look alike. We can tell how much damage has been caused by how the burn looks. We can use this chart of symbols to relate how a burn looks to the degree of burn."

Display "Fire And Burn Safety Alert" overhead transparency. Discuss first, second and third degree burns.

- Guided Practice: Divide students into small groups, and distribute "Charged Up For Burn Safety" activity sheet. Have the students read the list of products and indicate whether those products can cause burns or could help prevent burns. Point out that several items are frequently seen at holidays; have students identify those items and how the danger of those items could be avoided.
- . Have the groups complete the section on matching descriptions to classification of burns.



Independent Practice: Investigation. Have

students check their kitchens, bathrooms and garages for labels or other signs or symbols that warn of fire or burn dangers, then write a paragraph about what they found. Ask students to conclude their papers by writing a paragraph about why they should be concerned about preventing burns.

Reteaching: Invite the schools nurse to talk to the students about types of burns.



Enrichment: Have students examine other

appliances and their advertisements for information on fire or burn safety. Have students write what they find, including their opinions on whether there is enough

safety information in product labeling or advertisements.



Closure: Review the three classes of burns and

why first aid is needed for burns. Ask students what new things they learned about fire prevention during this unit. Ask if they have changed or plan to change how they act around objects that could cause fires or burns. Encourage them to help their families and friends learn about fire safety.

Administer post-test.



Nam Fifth	e Grade: Making Me Fire Safe PRE-TEST		
Circ	le True or False .		
1.	Heating equipment does not need to be inspected unless there is a problem.	True	False
2.	Weather can affect the opportunity for fires.	True	False
3.	Cleaning up trash outdoors can help prevent fires.	True	False
4.	You help your community by participating in fire drills at school.	True	False
5.	The label on a product must tell if it can cause burns.	True	False
6.	Setting a fire on purpose is a crime.	True	False
7.	Making a false alarm is not a crime.	True	False
8.	False alarms waste money.	True	False
Rea	d the question, and fill in the blank.		
9.	What effect does a grass fire have?		
10.	Doctors classify (or group) burns by their		
11.	Starting a fire on purpose is called		
12.	12. List three ways to keep a campfire from starting a bigger fire:		
	A		
	B	-	
	C		
Circ	cle the letter that is the correct answer.		
13.	Which is more likely to cause a fire? 14. Arson hurts: A. Only the owner of	the building	g that

Teacher: Use with Lesson One, Page 6. Duplicate for student use.

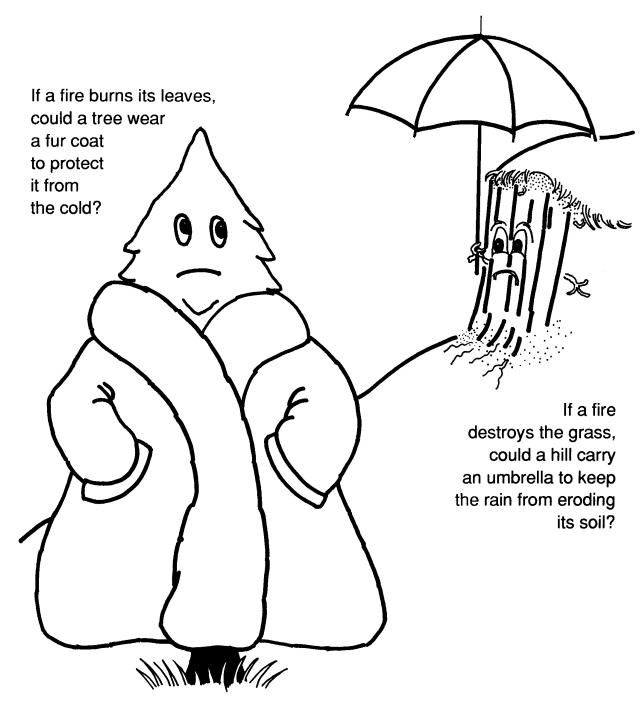
was burned.

C. The entire community.

B. No one.

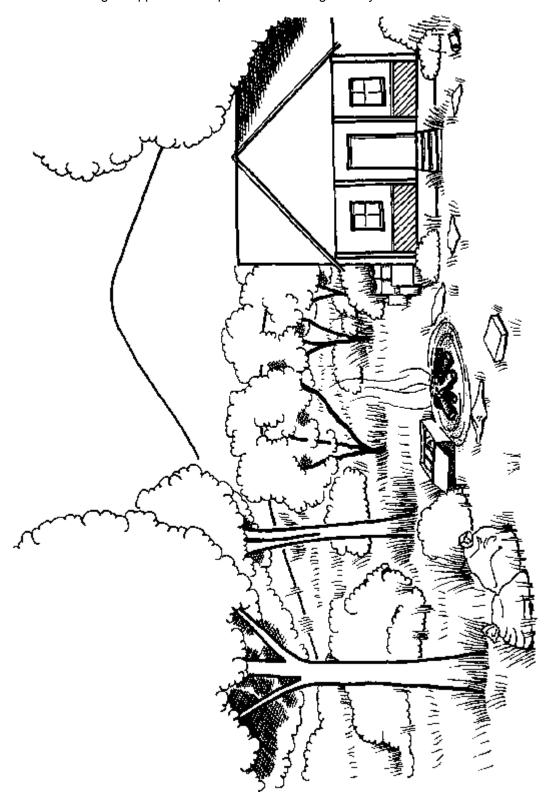
A. Central heatingB. Electric space heater

Who Protects The Great Outdoors?



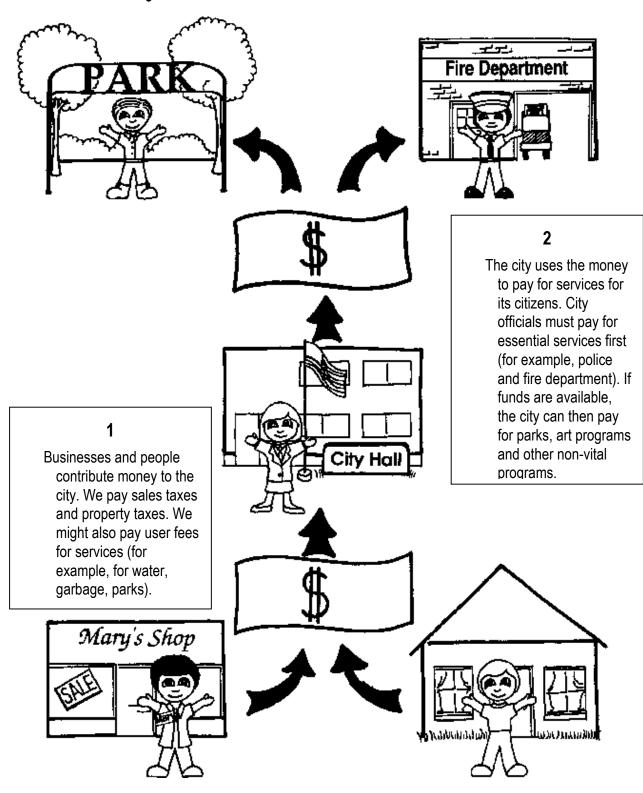
Teacher: Use with Lesson Two, Page 7. Transfer to overhead transparency.

What's Going To Happen?
Discuss what might happen if a campfire is left burning in this yard.



Teacher: Use with Lesson Two, Page 7. Transfer to overhead transparency.

Our Community



Teacher: Use with Lesson Three, Page 8. Transfer to overhead transparency.

We're Ready

We want to be ready,

Yeah, we sure do.

In case there's a fire,

what do we do?

We will be prepared,

yeah, we sure will,

'Cause we're gonna have

a fire exit drill.

Some folks gonna help us.

Now, they're real hot.

For some it's a job,

for some it's not.

A fire department

can come two ways:

Some folks volunteer,

and some get pay.

When the fire bell rings,

you gotta stop

And listen real close -

what's the word from the top?

Go out real calm

the nearest way.

Now, don't you run

or joke or play.

Teacher: Use with Lesson Four, Page 9. Transfer to overhead transparency.

Fire Exit Drill In Action

Role-Playing Cards

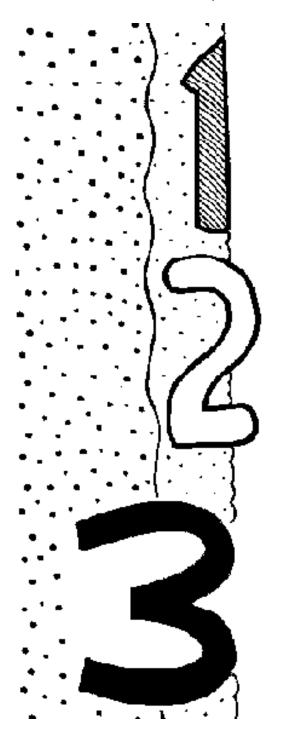
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.
Fire Marshal: Give students and teacher directions. Then signal a fire alarm.	Teacher: Assist the fire marshal. Watch how students react.	Class Monitor: Assist the fire marshal and the teacher.	Student: Follow directions from the fire marshal.	Student: Follow directions from the fire marshal.

Teacher: Use with Lesson Four, Page 9. Copy, then cut apart. Distribute one set to each group. Have students assign roles. Designate extra group members as additional "students."

Fire and Burn Safety Alert

Medical professionals classify (or group) burns by "degrees." The "degree" tells how much the skin has been damaged. It also guides how the burn should be treated. The chart below illustrates the three types of burns.

Tissue below the skin Dermis Epidemis



First-Degree Burn:

The top layer of skin is burned.

Pink or red. Usually fades in a few minutes or hours.

Treat the burn by running cool water over the burn for three to five minutes.

Second-Degree Burn:

The top and middle layers of skin are burned.

Red or white with water blisters.

Painful.

Treat the burn by running cool water over the burn for three to five minutes. See a doctor if the burn covers a large area.

Third-Degree Burn:

The full thickness of skin is burned.

Dry, black or ashy.

Sometimes no pain because nerve sensors are damaged.

Call emergency medical assistance or go to the emergency room immediately. If possible, cool with cool water to prevent further burning.

Teacher: Use with Lesson Five, Page 10. Transfer to overhead transparency.

Nam	1e			
Fifth	Grade: Making Me Fire Safe	POST-TEST		
Circ	cle True or False .			
1.	Heating equipment does not need to be unless there is a problem.	inspected	True	False
2.	Weather can affect the opportunity for fi	res.	True	False
3.	Cleaning up trash outdoors can help pre	event fires.	True	False
4.	You help your community by participating	g in fire drills at school.	True	False
5.	The label on a product must tell if it can	cause burns.	True	False
6.	Setting a fire on purpose is a crime.		True	False
7.	Making a false alarm is not a crime.		True	False
8.	False alarms waste money.		True	False
Rea	ad the question, and fill in the blank.			
9.	What effect does a grass fire have?			
10.	Doctors classify (or group) burns by their	r		
11.	Starting a fire on purpose is called			
12.	List three ways to keep a campfire from	starting a bigger fire:		
	A			
	B			
	C			
Circ	cle the letter that is the correct answer.			
13.	Which is more likely to cause a fire?	14. Arson hurts: A. Only the owner of	the building	g that

Teacher: Use with Lesson Five, Page 10. Duplicate for student use.

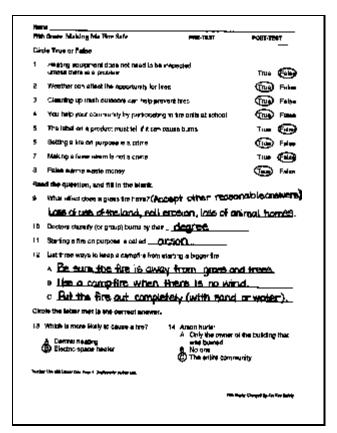
was burned.

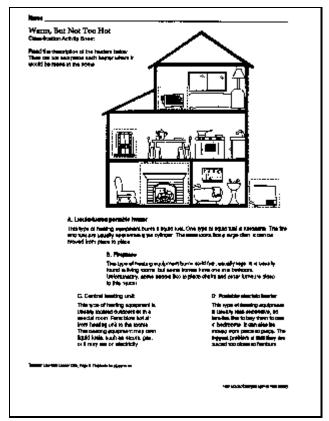
C. The entire community.

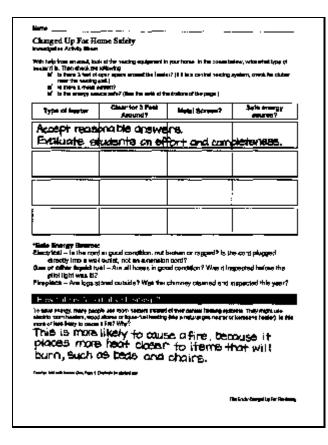
B. No one.

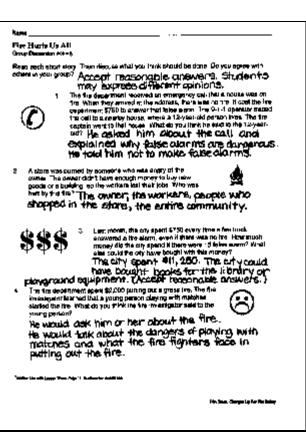
A. Central heatingB. Electric space heater

ANSWER KEY-1

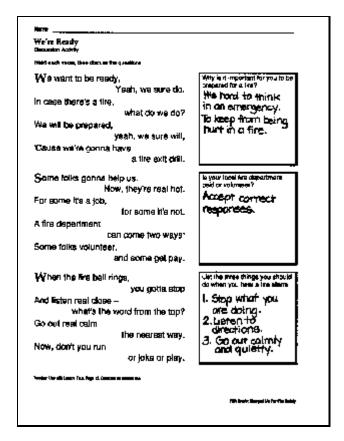


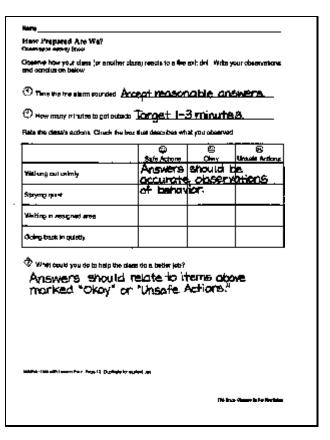


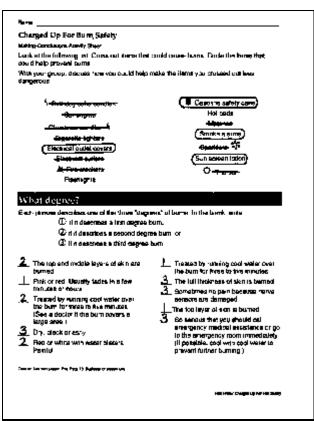




ANSWER KEY-2



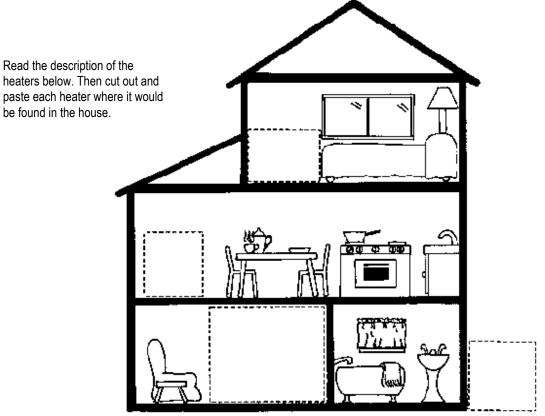




Student Materials — Duplicating Masters

Warm, But Not Too Hot

Classification Activity Sheet





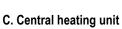
A. Liquid-fueled portable heater

This type of heating equipment burns a liquid fuel. One type of liquid fuel is kerosene. The fire and fuel are usually held in a tall cylinder. The base looks like a large dish. It can be moved from place to place.



B. Fireplace

This type of heating equipment burns solid fuel, usually logs. It is usually found in living rooms, but some houses have one in a bedroom. Unfortunately, some people place chairs and other furniture close to this heater.





This type of heating equipment is usually located outdoors or in a special room. Fans blow hot air from heating unit into rooms. This heating unit may burn liquid fuels, such as natural gas, or run on electricity.



D. Portable electric heater

This type of heating equipment is usually less expensive, so families like to buy them to use in bedrooms. It can also be moved from place to place. The biggest problem is that they are place too close to furniture.

Teacher: Use with Lesson One, Page 6. Duplicate for student use.

Name	
_	ed Up For Home Safety on Activity Sheet
heater it is. ☑ I	from an adult, look at the heating equipment in your home. In the boxes below, write what type of . Then check the following: Is there 3 feet of open space around the heater? (If it is a central heating system, check for clutter near the heating unit.)

	, , ,	
\overline{A}	Is there a metal screen?	,

☑ Is the energy source safe? (See the note at the bottom of the page).
--

Type of heater	Clear for 3 Feet Around?	Metal Screen?	Safe energy source?

*Safe Energy Source:

Electrical – Is the cord in good condition, not broken or ragged? Is the cord plugged directly into a wall outlet, not an extension cord?

Gas or other liquid fuel – Are all hoses in good condition? Was it inspected before the pilot light was lit?

Fireplace – Are logs stored outside? Was the chimney cleaned and inspected this year?

How safe is "alternative heating"?

To save energy, many people use room heaters instead of their central heating systems. They might use electric room heaters, wood stoves or liquid-fuel heating (like a natural gas heater or kerosene heater). Is this more or less likely to cause a fire? Why?

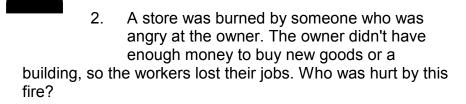
Teacher: Use with Lesson One, Page 6. Duplicate for student use.

Fire Hurts Us All

Group Discussion Activity

Read each short story. Then discuss what you think should be done. Do you agree with others in your group?

1. The fire department received an emergency call that a house was on fire. When they arrived at the address, there was no fire. It cost the fire department \$750 to answer that false alarm. The 9-1-1 operator traced the call to a nearby house, where a 12-year-old person lives. The fire captain went to that house. What do you think he said to the 12-year-old?





3. Last month, the city spent \$750 every time a fire truck answered a fire alarm, even if there was no fire. How much money did the city spend it there were 15 false alarms? What else could the city have bought with this money?



4. The fire department spent \$2,000 putting out a grass fire. The fire investigator learned that a young person playing with matches started the fire. What do you think the fire investigator said to the young person?



Teacher: Use with Lesson Three, Page 8. Duplicate for student use.

Name _____

We're Ready

Discussion Activity

Read each verse, then discuss the questions.

We want to be ready,

Yeah, we sure do.

In case there's a fire,

what do we do?

We will be prepared,

yeah, we sure will,

'Cause we're gonna have

a fire exit drill.

Some folks gonna help us.

Now, they're real hot.

For some it's a job,

for some it's not.

A fire department

can come two ways:

Some folks volunteer,

and some get pay.

When the fire bell rings,

you gotta stop

And listen real close -

what's the word from the top?

Go out real calm

the nearest way.

Now, don't you run

or joke or play.

Why is it important for you to be prepared for a fire?

Is your local fire department paid or volunteer?

List the three things you should do when you hear a fire alarm.

Teacher: Use with Lesson Four, Page 9. Duplicate for student use.

Name			
How Prepared Are We? Observation Activity Sheet			
Observe how your class (or another clas and conclusion below.	s) reacts to a fire	exit drill. Write yo	our observations
Time the fire alarm sounded:			
How many minutes to get outside:			
Rate the class's actions. Check the box that describes what you observed			
	© Safe Actions	⊙ Okay	© Unsafe Actions
Walking out calmly			
Staying quiet			
Waiting in assigned area			
Going back in quietly			
Milest accidence do to bole the color	d b. ((: 10		

♦ What could you do to help the class do a better job?

Teacher: Use with Lesson Four, Page 9. Duplicate for student use.

Name	
Charged Up For Burn Safety	
Making-Conclusions Activity Sheet	
Look at the following list. Cross out items that could help prevent burns.	could cause burns. Circle the items that
With your group, discuss how you could help dangerous.	make the items you crossed out less
Birthday cake candles Car engine Christmas candles & Cigarette lighters Electrical outlet covers Electrical outlets Fire crackers Flashlights	Gasoline safety cans Hot pads Matches Smoke alarms Sparklers * Sun screen lotion The sun
What degree?	
Each phrase describes one of the three "degrand of the three "degr	burn, ee burn, or
 The top and middle layers of skin are burned. Pink or red. Usually fades in a few minutes or hours. Treated by running cool water over the burn for three to five minutes. (See a doctor if the burn covers a large area.) Dry, black or ashy. Red or white with water blisters. 	 Treated by running cool water over the burn for three to five minutes. The full thickness of skin is burned. Sometimes no pain because nerve sensors are damaged. The top layer of skin is burned. So serious that you should call emergency medical assistance or go to the emergency room immediately. (If possible, cool with cool water to

Teacher: Use with Lesson Five, Page 10. Duplicate for student use.

Painful.

prevent further burning.)