



# **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**

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# **Introduction**

# Introduction

## Why teach fire and burn prevention?

Each year during the past decade, about 150 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.



**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

**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 Plans**

## 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 an 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.

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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 protect 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.
2. Follow directions when operating the grill.
3. Never operate indoors, only outdoors with little or no wind.
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 Texas wildland fires of 2011 that destroyed hundreds of homes and burned more than 3 million acres.

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.
2. 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 Texas fires that began as small brush fires and eventually destroyed homes and property worth millions of 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."

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### 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 saying, "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."

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#### 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 ready.


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 role-playing 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.

 **Independent Practice:** Distribute "How Prepared Are We?" Based on when students will do the evaluations, provide appropriate guidance on answering the questions.

**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.
4. 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.

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## 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 case 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.**

# **Teacher Supplemental Materials**

Name \_\_\_\_\_

**Fifth Grade: Making Me Fire Safe**

**PRE-TEST**

Circle **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 |

**Read 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. List three ways to keep a campfire from starting a bigger fire:

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

**Circle the letter that is the correct answer.**

13. Which is more likely to cause a fire?

- A. Central heating
- B. Electric space heater

14. Arson hurts:

- A. Only the owner of the building that was burned.
- B. No one.
- C. The entire community.

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

## Who Protects The Great Outdoors?

If a fire burns its leaves,  
could a tree wear  
a fur coat  
to protect  
it from  
the cold?

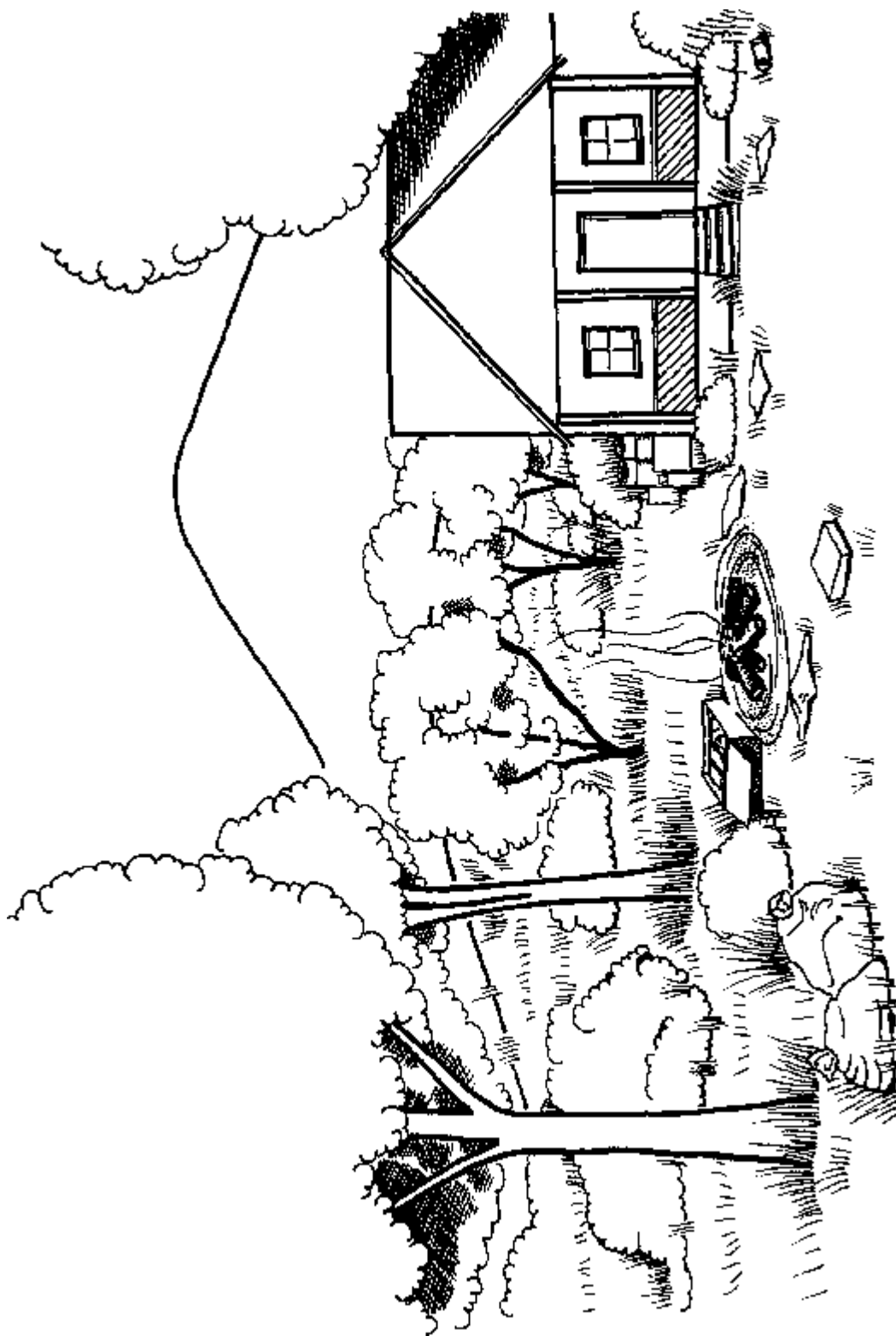


If a fire  
destroys the grass,  
could a hill carry  
an umbrella to keep  
the rain from eroding  
its soil?

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

## What's Going To Happen?

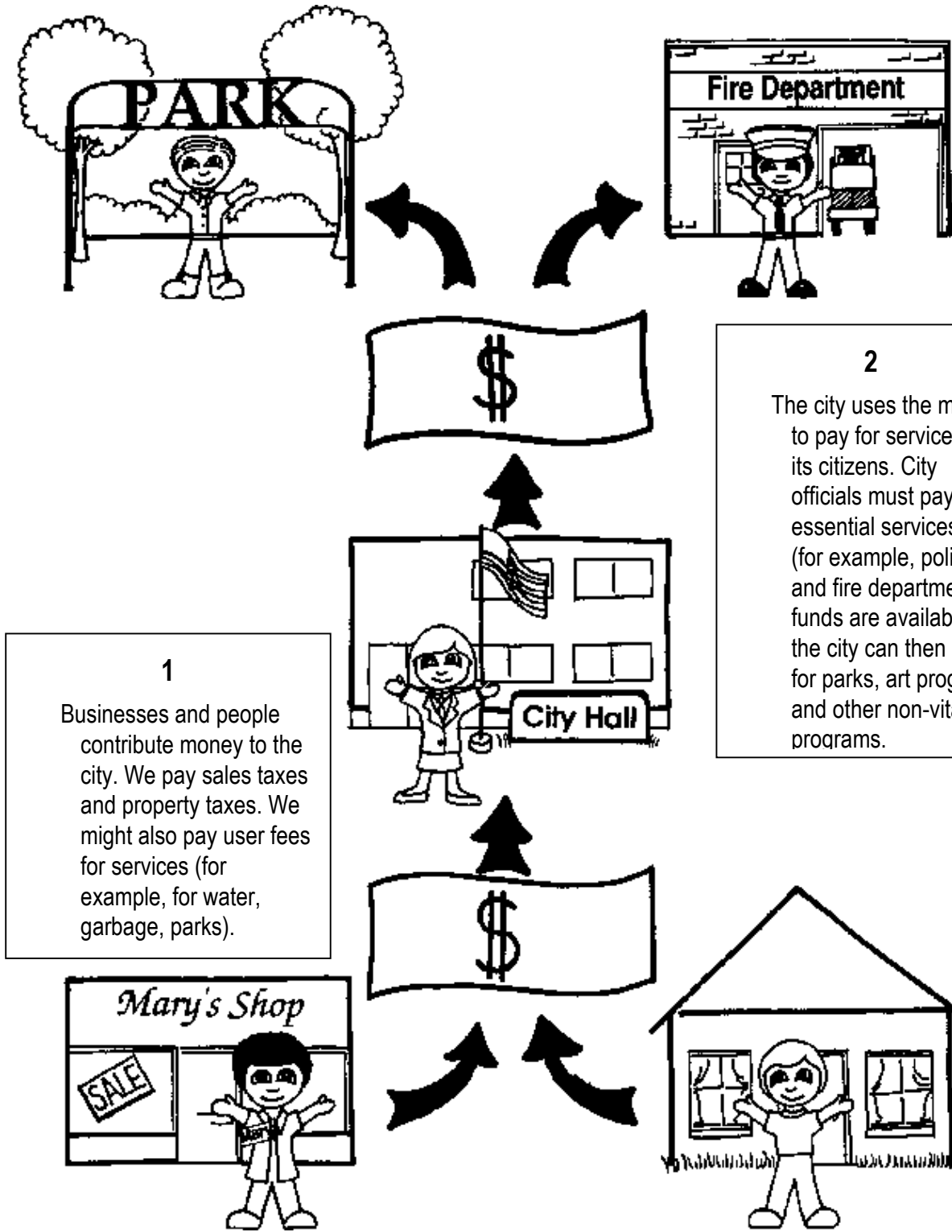
Discuss what might happen if a campfire is left burning in this yard.



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



# Our Community



**1**  
 Businesses and people contribute money to the city. We pay sales taxes and property taxes. We might also pay user fees for services (for example, for water, garbage, parks).

**2**  
 The city uses the money to pay for services for its citizens. City officials must pay for essential services first (for example, police and fire department). If funds are available, the city can then pay for parks, art programs and other non-vital programs.

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

## **We're Ready**

**W**e 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.

**S**ome 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.

**W**hen 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

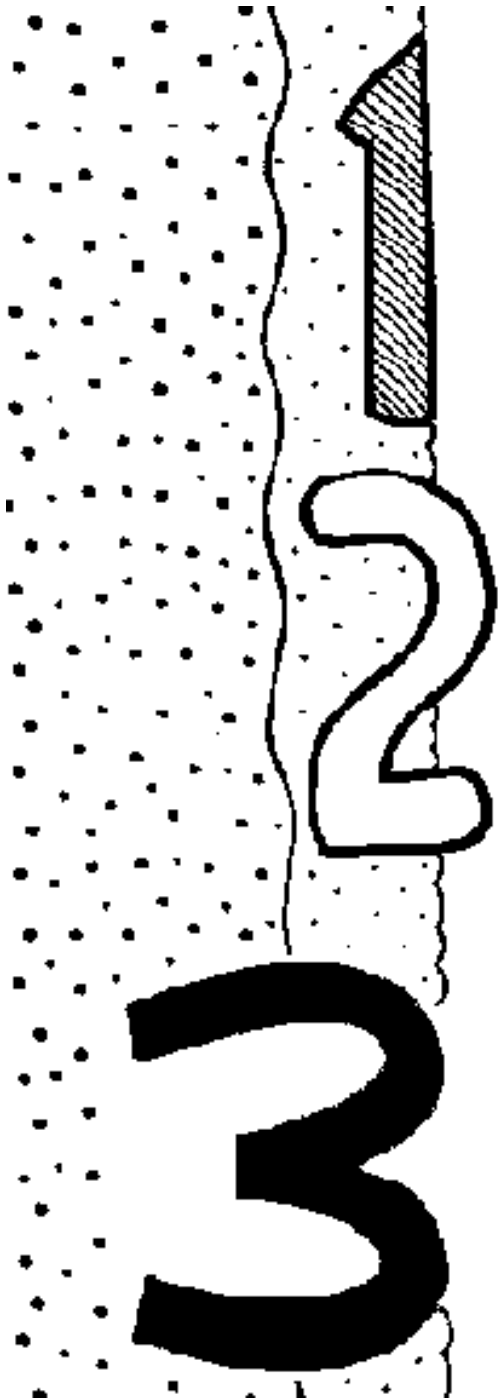
<b>Fire Marshal:</b> Give students and teacher directions. Then signal a fire alarm.	<b>Teacher:</b> Assist the fire marshal. Watch how students react.	<b>Class Monitor:</b> Assist the fire marshal and the teacher.	<b>Student:</b> Follow directions from the fire marshal.	<b>Student:</b> Follow directions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

Name \_\_\_\_\_

**Fifth Grade: Making Me Fire Safe**

**POST-TEST**

Circle **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 |

**Read 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. List three ways to keep a campfire from starting a bigger fire:

A. \_\_\_\_\_

B. \_\_\_\_\_

C. \_\_\_\_\_

**Circle the letter that is the correct answer.**

13. Which is more likely to cause a fire?

- A. Central heating
- B. Electric space heater

14. Arson hurts:

- A. Only the owner of the building that was burned.
- B. No one.
- C. The entire community.

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

Name \_\_\_\_\_

Pre-Test Making Me Fire Safe

PRE-TEST POST-TEST

Circle 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 outside 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. Getting a fire on purpose is a crime. True  False
7. Making a house warm by not a crane. True  False
8. False alarms waste money. True  False

Read the question, and fill in the blank.

9. What effect does a gas fire have? (Accept other reasonable answers)  
Loss of use of the land, soil erosion, loss of animal homes.
10. Doctors classify (or group) burns by their degrees.
11. Starting a fire on purpose is called arson.
12. List three ways to keep a campfire from starting a bigger fire.
  - A. Be sure the fire is away from grass and trees.
  - B. Use a campfire when there is no wind.
  - C. Put the fire out completely (with sand or water).

Circle the letter that is the correct answer.

13. Which is more likely to cause a fire?
  - A. Central heating
  - B. Electric space heater
14. Arson hurts:
  - A. Only the owner of the building that was burned
  - B. No one
  - C. The entire community

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Fire Safety: Charged Up For Fire Safety

Name \_\_\_\_\_

Warm, But Not Too Hot

Classification Activity Sheet

Read the description of the heaters below. Then use an X to place each heater where it would be most in the house.

- A. Liquid-fueled portable heater**  
This type of heating equipment burns liquid fuel. One type is liquid fuel in a reservoir. The fire and heat are usually separated by a cylinder. The same heater has a large door. Screen or moved both parts in place.
- B. Fireplace**  
This type of heating equipment burns solid fuel, usually logs. It is usually found in living rooms, but some homes have one in a bedroom. Unfortunately, some people do a place chairs and other furniture close to the years.
- C. Central heating unit**  
This type of heating equipment is usually located outdoors or in a mechanical room. Fans blow hot air from heating unit in the rooms. The heating equipment may use liquid fuels, such as kerosene, oil, or it may use electricity.
- D. Portable electric heater**  
This type of heating equipment is usually located outdoors or in a mechanical room. Fans blow hot air from heating unit in the rooms. The heating equipment may use liquid fuels, such as kerosene, oil, or it may use electricity.

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Fire Safety: Charged Up For Fire Safety

Name \_\_\_\_\_

Charged Up For Home Safety

Investigative Activity Sheet

With help from an adult, look at the heating equipment in your home. In the boxes below, write what type of heater it is. Then check the following:

- a) Is there a seal of open space around the heater? (If it is a central heating system, check the ducts near the heating unit.)
- b) Is there a flame sensor?
- c) Is the energy source safe? (See the back of the folders of the page.)

Type of heater	Clear for 3 Feet Around?	Seal/Screws?	Safe energy source?
Accept reasonable answers. Evaluate students on effort and completeness.			

**\*Safe Energy Sources**  
Electrical - Is the cord in good condition, not broken or frayed? 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?  
Fireplaces - Are logs stored outside? Was the chimney cleaned and inspected this year?

**Fireplaces: A word of warning!**  
To save money, many people use room heaters instead of the central heating system. They might use electric room heaters, wood-burning or liquid-fuel heating like a kerosene heater or kerosene heater. Is the room or tent likely to cause a fire? Why?  
**This is more likely to cause a fire, because it places more heat closer to items that will burn, such as beds and chairs.**

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Fire Safety: Charged Up For Fire Safety

Name \_\_\_\_\_

Fire Hurts Us All

Group Discussion #08-05

Read each short story. Then discuss what you think should be done. Do you agree with others in your group? **Accept reasonable answers. Students may express different opinions.**

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 passed 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? **He asked him about the call and explained why false alarms are dangerous. He told him not to make false alarms.**
2. A store was burned by someone who was angry at the owner. The owner didn't have enough money to buy new goods or a building, so the workers lost their jobs. Who was hurt by the fire? **The owner, the workers, people who shopped in the store, the entire community.**
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 if there were 15 false alarms? What else could the city have bought with this money? **The city spent \$11,250. The city could have bought books for the library or playground equipment. (Accept reasonable answers.)**
4. The fire department spent \$2,000 putting out a grass fire. The fire department learned that a young person playing with matches started the fire. What do you think the fire investigator said to the young person? **He would ask him or her about the fire. He would talk about the dangers of playing with matches and what the fire fighters face in putting out the fire.**

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Fire Safety: Charged Up For Fire Safety

ANSWER KEY-2

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?  
**It's hard to think in an emergency. To keep from being hurt in a fire.**

Is your local fire department paid or volunteer?  
**Accept correct responses.**

List the three things you should do when you hear a fire alarm.  
**1. Stop what you are doing.  
 2. Listen to directions.  
 3. Go out calmly and quietly.**

Teacher Use with Lesson Two, Page 4. Content © 2008 Fire.

Fire Safety: Charged Up For Fire Safety

Name \_\_\_\_\_

### How Prepared Are We?

Classroom Activity Book

Observe how your class (or another class) reacts to a fire exit drill. Write your observations and conclusions below.

⌚ Time the fire alarm sounded. **Accept reasonable answers.**

⌚ How many minutes to get outside. **Target: 1-3 minutes.**

Rate the class's actions. Check the box that describes what you observed.

	☺ Safe Actions	☹ Obey	☹ Unsafe Actions
Waiting out calmly	<b>Answers should be accurate observations of behavior.</b>		
Staying quiet			
Waiting in assigned area			
Going back in quietly			

⚡ What could you do to help the class do a better job?  
**Answers should relate to items above marked "Obey" or "Unsafe Actions."**

MSFSA 1166 with Lesson Plan Page 12. Duplicate for student use.

Fire Safety: Charged Up For Fire Safety

Name \_\_\_\_\_

### Charged Up For Burn Safety

Matching-Connections Activity Sheet

Look at the following list. Circle out items that could cause burns. Circle the items that you think prevent burns.

With your group, discuss how you could help make the items you circled out less dangerous.

☒ ~~Hot water~~

☒ ~~Hot oil~~

☒ ~~Hot steam~~

☒ ~~Hot surfaces~~

☒ ~~Hot liquids~~

☒ ~~Hot objects~~

☒ ~~Hot clothes~~

☒ ~~Hot air~~

☒ ~~Hot water~~

☒ ~~Hot oil~~

☒ ~~Hot steam~~

☒ ~~Hot surfaces~~

☒ ~~Hot liquids~~

☒ ~~Hot objects~~

☒ ~~Hot clothes~~

☒ ~~Hot air~~

**What degree?**

Each picture describes one of the three "degrees" of burns. In the blank, write:

⌚ if it describes a first degree burn,  
 ⌚ if it describes a second degree burn, or  
 ⌚ if it describes a third degree burn.

**1** The top and middle layers of skin are burned.

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

**3** Treated by running cool water over the burn for 10 to 15 minutes. (See a doctor if the burn covers a large area.)

**4** Dry, black or eschar.

**5** Red or white with severe blisters. Painful.

**1** Treated by running cool water over the burn for 10 to 15 minutes.

**2** The full thickness of skin is burned.

**3** Sometimes no pain because nerve endings are damaged.

**4** The top layer of skin is burned.

**5** Be careful that you should 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 Plan Page 15. Content © 2008 Fire.

Fire Safety: Charged Up For Fire Safety

**Student Materials —  
Duplicating Masters**

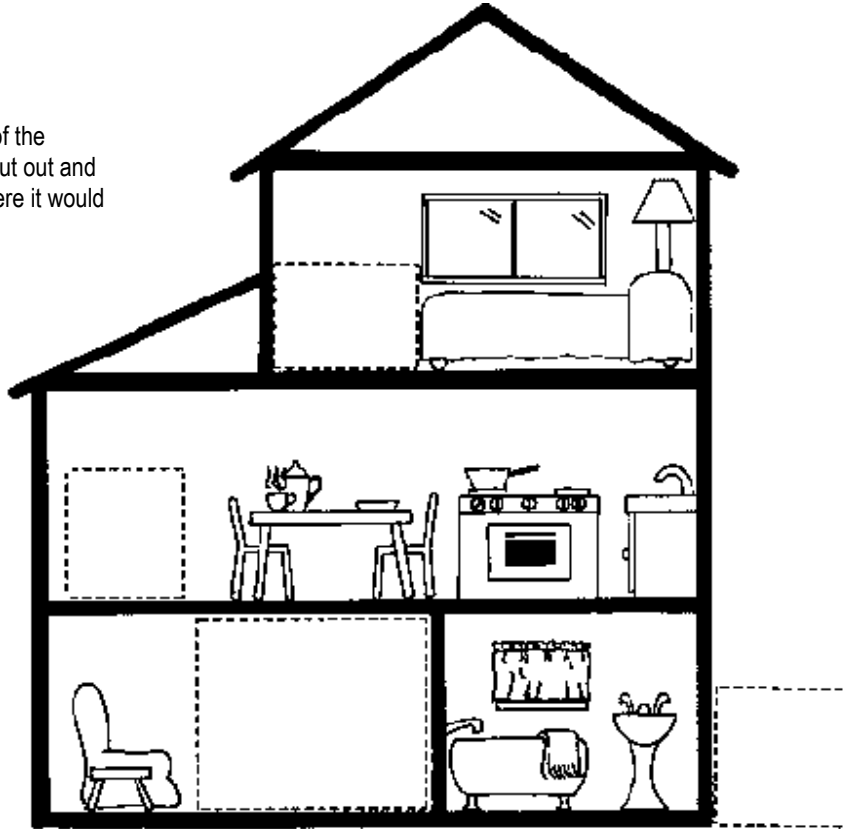


Name \_\_\_\_\_

# Warm, But Not Too Hot

Classification Activity Sheet

Read the description of the heaters below. Then cut out and paste each heater where it would be found in the house.



### 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.



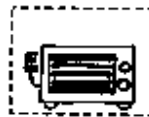
### B. Fireplace

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.



### C. Central heating unit

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 placed too close to furniture.

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

Name \_\_\_\_\_

## Charged Up For Home Safety

### Investigation Activity Sheet

With help from an adult, look at the heating equipment in your home. In the boxes below, write what type of heater it is. 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.)
- 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.

Name \_\_\_\_\_

## 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 \$1000 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?



2. A store was burned by someone who was angry at the owner. The owner didn't have enough money to buy new goods or a building, so the workers lost their jobs. Who was hurt by this fire?



3. Last month, the city spent \$1000 every time a fire truck answered a fire alarm, even if there was no fire. How much money did the city spend if 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.

**W**e 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.

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

**S**ome 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.

Is your local fire department paid or volunteer?

**W**hen 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.

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 class) reacts to a fire exit drill. Write your observations and conclusion below.

 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			

 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 cause burns. Circle the items that could help prevent burns.

With your group, discuss how you could help make the items you crossed out less dangerous.

 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 "degrees" of burns. In the blank, write:

- ① if it describes a first degree burn,
- ② if it describes a second degree burn, or
- ③ if it describes a third degree burn.

- |  |   |
|--|---|
| ___ The top and middle layers of skin are burned.  | ___ Treated by running cool water over the burn for three to five minutes.  |
| ___ Pink or red. Usually fades in a few minutes or hours.  | ___ The full thickness of skin is burned.   |
| ___ Treated by running cool water over the burn for three to five minutes. (See a doctor if the burn covers a large area.) | ___ Sometimes no pain because nerve sensors are damaged.  |
| ___ Dry, black or ashy.  | ___ The top layer of skin is burned.  |
| ___ Red or white with water blisters. Painful.   | ___ So serious that you should 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. Duplicate for student use.