

# Fire Safety Lesson Plan- Fourth Grade

## Session 1: Home Escape Planning

**Teacher:** Fire Safety Educator

**Objectives:**

- Students will be able to get out of burning buildings safely and quickly.
- Students will know 2 ways out of each room in their house
- Students will learn how to check doors for heat before opening, check hallway/rooms for smoke before entering
- Students will write a fire escape plan for their home
- Students will engage in critical thinking about finding solutions in preparing for a possible life threatening situation

**Standards:**

**English SOL standards addressed:**

- 4.1 The student will use effective oral communication skills in a variety of settings.  
4.4 The student will expand vocabulary when reading.  
4.6 The student will read and demonstrate comprehension of nonfiction texts.

**Materials:**

- DVD- The Great Escape Challenge, 17min
- Fire escape ladder

**Duration:** 45 minutes

**Anticipatory Set:**

Play DVD- The Great Escape Challenge.

Choose one kid to demonstrate how to exit a room.

**Input:**

Get to Know Smoke Alarms

- You need one smoke alarm in each bedroom
- You need a smoke alarm on each level of your home
- You need a smoke alarm outside each sleeping area
- Test smoke alarms once a month
- Get out the burning house *FIRST* and *THEN* call the fire department

Plan your Home Fire Escape

- Draw a map of your home, include all doors and windows
- Find two ways out of every room
- Make sure you can use all ways out- practice opening windows and screens

- Make sure doors and windows are not blocked by furniture
- Chose an outside meeting place in front of your home
- Plan to assist anyone who needs help getting outside
- Go over the plan with everyone in the house

**Modeling:**

Show example home escape plan

Show fire escape ladder

**Questioning Strategies:**

What if you try to go out the door and you see smoke? *Try the window*

What if you live in a tall building and you don't have a ladder? *Go to window and shout*

How can you help the firefighters find you if you need help getting out? *Yell, flashlight, throw things*

Accept questions

**Closure:**

Homework is optional, will get a prize

**Independent Practice:**

Explain homework, complete fire safety plan AND have parents sign check list

## Session 2: Home Fire Hazards and Prevention

**Teacher:** Fire Safety Educator

### **Objectives**

Students will understand that:

- Fire can be destructive as well as helpful.
- Fire needs fuel, heat, and oxygen to keep it burning; remove any one of these, and the fire goes out.
- Heat is transferred by conduction, convection, and radiation.
- Fire safety engineers at Underwriters Laboratories use controlled burns to make sure household items meet safety standards.
- Because heat and smoke rise, anyone in a fire should get down and get out, then call for help.
- Smoke is deadly because it contains toxic gases.
- Chances of surviving a fire increase by having working smoke and carbon monoxide alarms, home sprinklers, a fire extinguisher, and a fire escape plan.
- Fire extinguishers are for helping you get away from fire, NOT so you can stay inside.

### **Standards:**

#### **English SOL standards addressed:**

- 4.1 The student will use effective oral communication skills in a variety of settings.
- 4.4 The student will expand vocabulary when reading.
- 4.6 The student will read and demonstrate comprehension of nonfiction texts.

#### **Science SOLs addressed:**

- 4.3 The student will investigate and understand the characteristics of electricity. Key concepts include d) the ability of electrical energy to be transformed into light and motion, *and to produce heat*

### **Materials:**

DVD- Safety Smart Science with Bill Nye the Science Guy, 25min  
Visual aids, burnt lamp shade, melted wires  
White board/ chalk board, draw fire triangle for discussion

**Duration:** 45 minutes

### **Anticipatory Set:**

See if anyone did homework, give prizes

Review: how to check a door, what to do if it's hot or smoky

Yesterday we talked about what to do in a fire, today we're going to talk about how to NOT have a fire!

### **Input:**

Play DVD- Safety Smart Science with Bill Nye the Science Guy  
Discussion

**Modeling:**

Use visual aids throughout

**Checking for Understanding:**

Engage students in interactive discussion.

- What are the three parts of the fire triangle?
- What are some things in your house that put off heat?
- What are some things in your house that could be “fuel” on the fire triangle?
- What are some things you can do in your house to make sure the pieces of the fire triangle don’t come together?
- What are fire extinguishers for? (help you safely get out of the house)
- Why should you crawl low to escape a fire?

**Closure:**

Thank you for having me!

**Independent Practice:**

Go home and take a look at your outlets; do you have too much stuff plugged in?

If you haven’t done your home escape plan yet, bring it next time for a prize!

## Session 3: Youth Fire-Setter Prevention

**Teacher:** Fire Safety Educator

**Objectives:**

Students will learn that:

- arson is a serious crime
- fireworks are illegal in James City County
- fire can spread quickly and should be respected
- fire is a tool, not a toy. Misusing fire has real life consequences.

**Standards:**

**English SOL standards addressed:**

- 4.1 The student will use effective oral communication skills in a variety of settings.
- 4.4 The student will expand vocabulary when reading.
- 4.6 The student will read and demonstrate comprehension of nonfiction texts.

**Materials:** AV equipment with internet access

**Duration:** 45 minutes

**Anticipatory Set:**

See if anyone did homework, give prizes

Review: can anyone name possible fire hazards in the home?

We talked about what to do in case of a fire, we talked about how not to let stuff accidentally catch fire, today we're going to talk about why you should never set fires on purpose.

**Input:**

Arson

- Setting fires on purpose
- Serious crime- not the trouble where you get grounded, the kind you go to JAIL for!
- What if you're just playing around and it accidentally gets out of control and you burn other things on accident? *It is NEVER ok to play around with fire!*

Misusing Fire

- Fire is a tool and not a toy
- Every year hundreds of people (mostly kids) die or are injured because of a young person misusing fire
- A lot of kids who misuse fire do it because they want to see what will happen
  - It's ok to be curious, but it's never ok to misuse fire. Satisfy curiosity with knowledge.
- Fire can spread very quickly. Video: Lancashire FD: Bedroom Fire test, 3:56  
<https://www.youtube.com/watch?v=eZJ6SorlpJo&list=PLRyUhtiAFI1W1XnVw90G1nWRDKzxTjIFb&index=2>

- Some kids who misuse fire do it to look cool or impress their friends
  - If you are goofing off with your friends and one of them brings out a lighter, tell them to stop, and **TELL AN ADULT**. You could be saving their life.
- Some kids who misuses fire think it's fun to take risks. Here's the risk:
  - Damage/loss of property
  - Charge of arson/jail time
  - Permanent disfigurement or death
  - Hurt or kill someone else

#### Fireworks

- Fireworks are illegal in James City County (except when professionals get special permits, Bush Gardens etc.) If you have them you can turn them in at any fire station and you won't get in trouble.
- More importantly, they are **not safe**.
- Video demonstrating the danger of fireworks: NFPA: The Dangers of Consumer Fireworks, 1:23  
[https://www.youtube.com/watch?v=NzKMYzpA6uk&index=3&list=PLRyUhtiAF11Wq\\_4zfwlW4sCDn6R7QfTXt](https://www.youtube.com/watch?v=NzKMYzpA6uk&index=3&list=PLRyUhtiAF11Wq_4zfwlW4sCDn6R7QfTXt)
- Sparklers- 1200 degrees F!
- It's okay to say "No thank you" if an adult offers you to play with sparklers.

#### **Modeling:**

Videos of professional experiments and demonstrations.

#### **Guided Practice:**

Engage students in interactive discussion

#### **Closure:**

Fire should not be feared but must be respected. It is a tool, and never a toy.

Hand out prizes for any more fire safety plans signed by parents.

#### **Independent Practice:**

If you are curious about fire, do not experiment. Instead, watch real professional experiments from:

- National Fire Protection Agency
- Underwriters Laboratory
- US Consumer Product Safety Commission
- Mythbusters