

P.I. Plug says,

# **“Be Smart About Fire and Electrical Safety!”**

(Part I of II)

A teacher's guide to fire prevention and electrical safety for Grades 3-5

Inside you will find standards-based materials that include:

**Introduction to Lessons on Fire and Electrical Safety**

**Safety Quest Activity**

**Circuit Sentences Matching Activity**

**Classroom Poster**

Check out [www.esfi.org](http://www.esfi.org) for additional classroom activities!

ESFi





## Dear Teacher,

Many people are unaware of the risks fire and electrical hazards pose to children and their families. The Electrical Safety Foundation International (ESFI) is a 501(c)(3) organization dedicated to promoting fire and electrical safety in the home, school, and workplace.

### Did you know?



In **2011** U.S. Fire Departments responded to a fire every **23 seconds**?

**Children** and **older adults** are severely affected by fire and electrical safety hazards.

### How this classroom toolkit can help:

- Requires minimum advance preparation and covers a broad range of topics that will help students understand critical principles of fire and electrical safety at home.
- Designed for **Grades 3-5** and **meets Common Core State Standards** in reading and science.
- Contains valuable take home activities that foster vital **electrical safety practices** for the **entire family**.



### The P.I. Plug says, “Be Smart about Fire and Electrical Safety!” toolkit includes:

- Classroom poster
- Classroom and online activities
- Safety at Home Exercise
- Safety contest details
- Visit **[www.esfi.org](http://www.esfi.org)** for more classroom resources

The P.I. Plug says, “Be Smart about Fire and Electrical Safety!” toolkit and contest details are available online and at no cost at **[www.esfi.org](http://www.esfi.org)**.

Thank you for helping your students and their families become more fire and electrically-safe at home!

**Sincerely,**

President Brett Brenner  
and the ESFI Team



# Circuit Sentences & Matching Activity

**Name:**

A **circuit sentence** has no spaces between the words. Your challenge is to place slashes where you think the spaces should go. Each sentence contains a safety message. One has already been completed for you.

The second part of this activity challenges you to match the pictures with the sentences that describe what you see. Most of these are pictures of things you should not do! Draw a line from the end of the sentence to the matching picture. One has already been completed for you.

**Sample:** Don't/plug/too/many/things/into/one/outlet.



1. Waterandelectricitydon'tmix.
2. Makesureelectricalcordsarenotfrayedorbroken.
3. Neverdrythingsbyputtingthemonalamp.
4. Don'tputelectricalcordsundercarpet.
5. Placeelectricalcordswhereyouwon'ttriponthem.
6. Putsmokealarmsoneachlevelofthehouse.
7. Testsmokealarmsatleastonceamonth.
8. Replacesmokealarmbatteriesatleastonceayear.
9. Keepthingsthatcanburnawayfromspaceheaters.





# Safety Quest Activity

## Safety Quest Challenge Lesson Plan

**Objective:** To familiarize students with electrical safety through personal research.

**Time requirement:** teacher involvement: 15 min. / student involvement: suggested 45-60 min.

**Approach:** This inquiry-based experience will challenge students to answer questions using a variety of resources. Students can use the Internet, library, print resources, or knowledgeable individuals as a source.

**Introduce the activity:** Project the questions on a white board and read them out loud. Encourage students to read along with you or ask volunteers to read the questions. Review the words that might be difficult for your students to pronounce or understand, like circuit, devices, and frayed.

**Optional:** Ask students to attempt to answer any of the questions that they think they can. Encourage the students to provide support for their answers, such as the source from which they learned it.

**Define the task:** Ask students to research all questions using recommended sources above. Students can work as a class, in groups, or individually.

**Share the results:** Consider options such as a brief written report, an oral presentation, a multimedia presentation, or other method. Have the students **evaluate** the task and the answers that they found. Conclude the activity by having the students **reflect on the experience** and **review what they have learned about electrical safety**.

**Safety Quest Teacher Answer Key:** Answer key online at [www.esfi.org](http://www.esfi.org).

## Safety Quest Questions:

Have you ever completed a Safety Quest? Help P.I. Plug complete this safety quest by using the library, the Internet, your local electrician, firefighters, parents, caregivers, grandparents, or others to find the answers to the questions below. (Don't forget to check out [www.esfi.org](http://www.esfi.org) for answers too!)

When is electrical safety month?

What is an electrical circuit?

What is the difference between a conductor and an insulator in an electrical wire?

How hot does a light bulb get when it is turned on?

What are the two kinds of electrical plugs?

Why is it dangerous to have electrical devices around water?

Why should you not put an electrical cord under a carpet?

Why is a frayed electrical cord dangerous?

What is a smoke alarm?

Why should you replace the battery in a smoke alarm?

