



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

FIRE SAFETY

1. Answer the following questions in writing.
 - a. Explain the chemistry and physics of fire.
 - b. Draw a "fire triangle." Point out each of the parts needed in order to have oxidation. Define "oxidation" and "combustion."
 - c. Define "ignition point" or "kindling point."
 - d. Define "flash point."
 - e. When either combustible liquids or materials are burning, what really is burning?
 - f. What is spontaneous combustion?
2. Draw a floor plan of your home including all windows and doors. Locate two escape routes from each room. Also, mark a designated meeting area outside the home to gather after each person escapes from the home. Post this plan on a bulletin board or in your utility room. Practice a home fire drill using this plan.
3. Complete the Home Fire Safety Survey. Check your home for each of the conditions listed. State why these checks should be made twice a year.
4. Describe in writing at least ten examples of fires occurring in your area started by the following causes. Give at least one example of each.
 - a. Lightning strike
 - b. Arson
 - c. Lack of knowledge
 - d. Poor judgment
 - e. Carelessness
 - f. Mechanical or electrical failureObtain the information from newspaper files or fire department data.
5. During the "Fire Season," there are fire ratings that the state and national forestry departments and local fire departments post daily. List, in writing, the five categories of fire conditions and what they mean.
6. Interview a fire captain or firefighter about the fire fighting profession. Ask about his or her most rewarding and most dangerous fire fighting experiences. Ask what education and specialized training are required for the profession. Write a 300-word report on your interview. Include your own reactions to the interview.
7. Explain, in writing, the following:
 - a. How the "stop, drop, roll, and cool" procedure should be used to extinguish flames and lessen burn injuries if your clothing catches fire.
 - b. How to give first aid treatment for burns and what should not be done.
8. Explain what action should be taken in each of the following situations:
 - a. You open the door of a home and smell gas (gasoline, diesel oil, kerosene, propane, or natural gas).
 - b. You smell smoke or the smoke detector goes off in the middle of the night.