

Subject: Chemistry

Topic: Fire triangle and Fire extinguishers

Level: S.4

Learning objectives:

1. Content:

Students should be able to:

describe in note form the main features of the five different types of fire extinguisher.

2. Language:

explain the different uses and limitations of different extinguishers using 'because' and 'however'.

S4 Chemistry
Fire triangle and Fire extinguishers
Worksheet 1

Name : _____ No.: _____ Class: _____ Date: _____

There are 5 types of fire extinguishers. Each of them has its own characteristics. They each can put out different kinds of fires.

1. Note-taking

Watch the video and then try to complete the following table. The first row is done for you as an example.

Type of extinguisher	What substance is present in the extinguisher?	What kinds of fire is it suitable for?	Which part of the fire triangle can be removed? Why?	What kinds of fire is it not suitable for?	Reasons why it is not suitable
Halon extinguisher	BCF or BTM (organic liquids)	Electrical fires	● Removes oxygen from the air. ● BCF or BTM is non-flammable. ● Denser than air. ● Cuts off the oxygen/air supply to the fire.	Fires in a small, closed area	BCF and BTM are toxic
Water extinguisher					
Carbon dioxide extinguisher					

Foam type extinguisher					
Powder extinguisher					

2. Writing

Sum up what you have learnt in a short paragraph. Use the following pattern.

[type] + fire extinguisher is used to put out + [a kind of fire]. This is because [reasons] + and so it can remove [a part / parts] from the fire triangle. However, it is not suitable for + [type / place of fire]. This is because + [reason].

a) A halon fire extinguisher is used to put out electrical fires. This is because BCF or BTM is denser than air and is non-flammable and so it can remove air from the fire triangle. However, it is not suitable for use in a closed area. This is because BCF and BTM are toxic.

b) A water fire extinguisher is used to put out _____.
This is because _____ and so it can remove _____ from the fire triangle. However, it is not suitable for _____. This is because _____.

c) A carbon dioxide fire extinguisher is used to put out _____. This is because _____ which can remove _____ from the fire triangle. However, it is not suitable for _____. This is because _____.

d) A powder fire extinguisher _____

_____.

e) A foam fire extinguisher _____

_____.