

# BC Science 9 Workbook Answers

## UNIT 1 Atoms, Elements, and Compounds

### Chapter 1 Atomic theory explains the composition and behaviour of matter.

#### Section 1.1 Safety in the Science Classroom

##### Reading Checks

###### Page 3

1. Listen to your teacher. Be alert. Be careful. Clean up.
2. Workplace Hazardous Materials Information System

##### Interpreting Illustrations

###### What is wrong with this picture?

###### Page 4

Accept any seven of the following answers:

UNSAFE SITUATION	POSSIBLE INJURY
heating a test tube without wearing safety goggles	eye damage caused by broken glass if test tube shatters or acid or base burns if liquid boils suddenly
not tying back long hair while using a Bunsen burner	burns caused by hair catching on fire
eating and drinking in the lab while dissecting a specimen	ingestion of harmful substances caused by contamination of food
drinking unknown chemicals from a beaker	ingestion of harmful substances
washing an electrical equipment with water	electrocution the next time the electrical equipment is plugged into the wall
horseplay or fooling around in the lab	head or other injuries
spills on the floor	head or other injuries from slipping and falling
working in a crowded work area, starting a lab without clearing off the work area	spillage, causing acid burns or falls
chemical spill on the table	acid burn if spill is corrosive
working with broken glassware	getting a cut
pouring acid into a test tube without using a test tube rack	acid burn

##### Comprehension

###### Safety do's and don'ts

###### Page 5

1. Unsafe practice: improper way of smelling sample  
Correct thing to do: hold the beaker at arm's length and waft the fumes toward the nose
2. Unsafe practice: not taking immediate action  
Correct thing to do: tell partner to stop, drop, and roll; inform the teacher; use the fire blanket
3. Unsafe practice: pouring chemical back into the original container  
Correct thing to do: dispose of the chemical as instructed by your teacher
4. Unsafe practice: spill on the floor; someone could slip and fall  
Correct thing to do: clean up the spill immediately
5. Unsafe practice: not listening to instructions  
Correct thing to do: listen to the teacher's instructions; ask the teacher if you are unclear as to what you should be doing
6. Unsafe practice: using a chemical that is not clearly labelled; do not know for sure what chemical you are using  
Correct thing to do: only use chemicals in clearly marked containers

##### Applying Knowledge

###### What is WHMIS?

###### Page 6

1. Corrosive material: will corrode substances with which it comes in contact, including human flesh
2. Dangerously reactive material: may readily react with other substances to produce harmful effects (bleach is an example)
3. Flammable and combustible material: will readily burst into flames
4. Poisonous and infectious material causing immediate and serious toxic effects: likely to cause illness or death if ingested or spilled on skin

##### Assessment

###### Safety in the Science Classroom

###### Page 7

1. B 2. C 3. F 4. D 5. A 6. E 7. H 8. B 9. D 10. C 11. A

# **Bc Science Probe 9 Workbook Answers**

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*Canadiana* ,1986      Resources in Education ,1982      **Nelson B. C. Science Probe 9** Barry LeDrew,Jim Axford,Allan Carmichael,Kirsten Farquhar,Karen Morley,Jim Reid,Malcolm Sneddon,2007-02-23 Grade level 9 i s      *Canadian Books in Print* ,1983      Space Education ,1981      B.C. Science Probe 10 ,2009      **Resources in Education** ,1979  
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