Bukit View Secondary School

Lower Secondary Science

Worksheet – Bunsen Burner

Name:	() Class:Sec 1T Date:/2002			
1. The	of a bunsen burner is to control the amount of air entering the	burner.		
A) collar	B) air-hole			
C) barrel	D) jet	()	
2. A non-luminous flame should <u>not</u> be left unattended because it is				
A) flickering.	B) very hot.			
C) almost invi	sible. D) orange in colour.	()	
3. A luminous flame is not used for heating a test-tube of water because the flame				
A) produces s	oot. B) is too strong.			
C) is unsteady	D) will crack the test tube.	()	
4. The hottest region of a non-luminous flame is represented by point				



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- 5. It is dangerous to leave a non-luminous flame burning because
 - A) the flame is difficult to see and someone may accidentally be burnt.
 - B) the flame emits poisonous gases.
 - C) 'strike-back' is most likely to occur with such a flame.
 - D) the flame is steady and will not flicker.
- 6. The base of the Bunsen burner is broad so that
 - A) the burner will look more proportionate.
 - B) the burner will be more stable.
 - C) more gas can come out of the gas jet.
 - D) 'strike back' will not occur so easily.

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- 7. If we want the Bunsen burner to be hotter and less yellow, we adjust the
 - B) collar A) gas tap (
 - C) gas jet D) barrel
- 8. The following table gives the part of the bunsen burner together with their respective functions. All the functions given are incorrect except

	Part	Function
Α	Air-hole	For lighting the burner
В	Collar	To control the amount of gas coming in from the gas supply
С	Base	To support the burner so that it does not topple over easily
D	Barrel	To control the colour of the bunsen flame
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9. The picture shows a Bunsen burner. Which one of the following correctly represents A, B and C?

	А	В	С	
Α	Gas Jet	Collar	Barrel	
В	Collar	Barrel	Gas Jet	C
С	Barrel	Collar	Gas Jet	
D	Barrel	Gas Jet	Collar	l



10. What is the first thing you need to do before you light a Bunsen burner?

A) Turn off the gas tap.

B) Pull out the rubber tubing.

C) Close the air hole. D) Open the windows.

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Section B

1. Label the different part of the Bunsen burner.



2. Two ice-cream sticks were moved up and down in two types of bunsen flames for ten times each. The results are as follows:

Ice-cream Stick A		black specks	Ice-cream Stick B
	tip is burnt	order speeks	
(a) Name the	e bunsen flame used for		
(i) ice-cream	stick A:		 <u> </u>
(ii) ice-cream	stick B:		
(b) What are	the black specks on ice cre	eam stick B made of?	
(c) What car	you conclude from the exp	periment?	

3. Draw and label a Bunsen burner.

4. Fill in the blank with a suitable word.

The procedure for lighting a Bunsen burner is as follows. Firstly, you must (a) ______ the air-holes. Next, turn on the gas tap with your free hand and light the burner with the lighter. To obtain a (b) ______ flame, the air holes must be closed. This flame is (c) ______ in colour. To obtain a hotter flame, you should (d) ______ the air-holes. This flame is known as a (e) ______ flame which is (f) ______ in colour.