

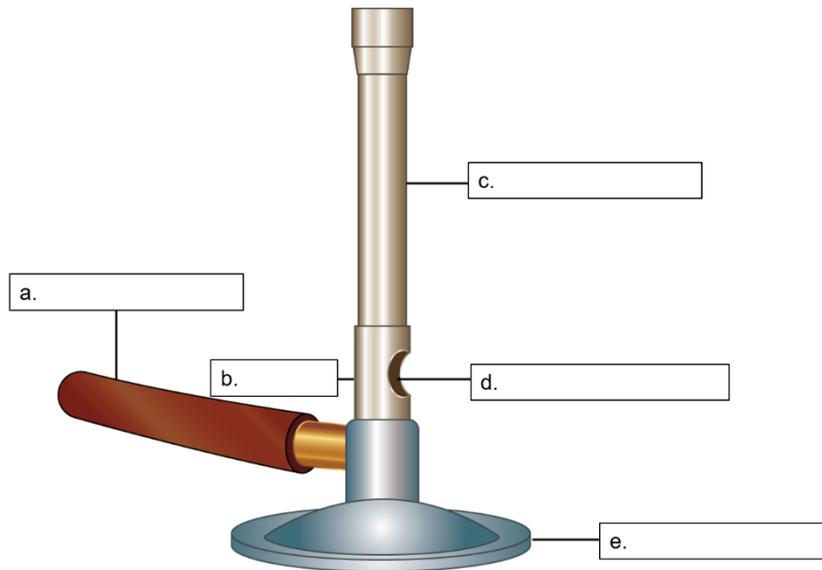
## Lab Procedures Assignment- Teacher Edition

### I. Parts of the Bunsen Burner

Identify the parts of the Bunsen Burner using the word list.

**Wordlist:**

Air hole, barrel, base, collar, gas hose



### II. Lighting a Bunsen Burner

The steps below for lighting a Bunsen burner safely are mixed up. Reorganize them to make them make sense.

1. Light the match.
2. Check the Bunsen for damage.
3. Connect the gas hose to the gas tap.
4. Hold the match over the top of the barrel.
5. Put on your safety glasses.
6. Open the air hole.
7. Turn on the gas.
8. Place the burner on a heat proof mat.
9. Close the air hole.
10. Extinguish the match,

Correct order:

## Lab Procedures Assignment- Teacher Edition

### III. Safety with Bunsen Burners

Give a reason for the following:

1. Lighting the match before turning on the gas.

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2. Placing the Bunsen on a heat proof mat

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3. Tying back long hair.

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4. Using the blue flame to heat a substance.

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5. Having the air hole open when lighting the Bunsen.

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### IV. Heating Substances

Decide if the following statements are true or false. Correct the false statements to make them true.

1. A blue flame has a lower temperature than an orange flame.
2. An orange flame has less air than a blue flame which is why it leaves soot on glassware.
3. When heating a substance in a test tube, it should be moved back and forth continuously to allow the substance to heat evenly.
4. The very top of the Bunsen flame is the best position for heating a substance.

## Lab Procedures Assignment- Teacher Edition

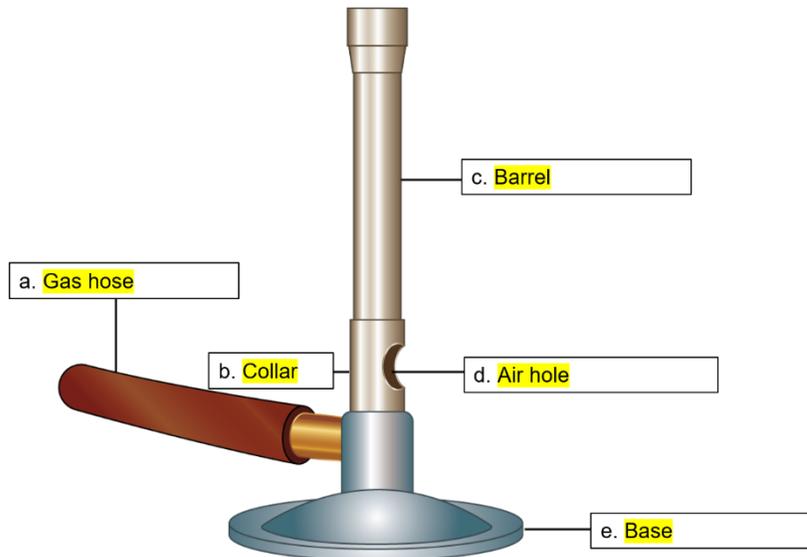
### ANSWERS

#### I. Parts of the Bunsen Burner

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7. Turn on the gas.
8. Place the burner on a heat proof mat.
9. Close the air hole.
10. Extinguish the match.

Correct order: 5 → 2 → 3 → 8 → 9 → 1 → 4 → 7 → 10 → 6

## Lab Procedures Assignment- Teacher Edition

### III. Safety with Bunsen Burners

Give a reason for the following:

1. Lighting the match before turning on the gas.  
**To prevent excess gas from accumulating and causing a large flame.**
2. Placing the Bunsen on a heat proof mat  
**To prevent damage to the bench top.**
3. Tying back long hair.  
**Stop hair from catching on fire**
4. Using the blue flame to heat a substance.  
**The blue flame is hotter and burns cleanly due to a greater amount of air mixed into the gas.**
5. Having the air hole open when lighting the Bunsen.  
**So that the flame can be visible.**

### IV. Heating Substances

Decide if the following statements are true or false. Correct the false statements to make them true.

1. A blue flame has a lower temperature than an orange flame.  
**False – it has a higher temperature.**
2. An orange flame has less air than a blue flame which is why it leaves soot on glassware.  
**True**
3. When heating a substance in a test tube, it should be moved back and forth continuously to allow the substance to heat evenly.  
**True.**
4. The very top of the Bunsen flame is the best position for heating a substance.  
**False – at the top of the darker blue portion of the flame is the best part for heating.**