

HOW TO LIGHT A BUNSEN BURNER

5 THINGS TO DO TO YOURSELF BEFORE LIGHTING BURNER

1. Tie back long hair.
2. Roll up sleeves or remove loose clothing
3. Put on goggles.
4. Put on a heat resistant apron.
5. Put away flammable materials.

3 THINGS TO CHECK BEFORE LIGHTING BURNER

1. Check that gas is in OFF position (perpendicular to the gas outlet)
2. Check that valve on the bottom of the Bunsen burner is off. (turned all to the left)

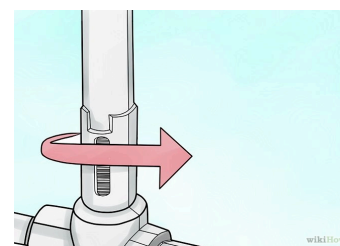
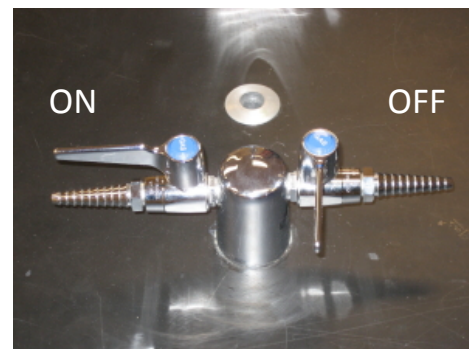
RIGHT TO LIGHT (gas valve is open) AND LEFT OUT (Puts flame out)

3. Check that the collar (air vent) is closed.

LIGHTING THE BUNSEN BURNER

1. Connect hose securely to gas supply and Bunsen Burner.
2. Turn on main gas. If you hear gas, check the valve on the Bunsen burner. It may be open. If it is open, close it by turning it counterclockwise.
3. Turn the valve on the Bunsen burner clockwise (right) about 3 half turns. Your hand should be resting on the side of the hose.
4. Light burner immediately. If you don't light it right away turn off the burner and clear area of gas. Try again.
5. After burner is lit adjust valve on burner so that flame is about 2-3 inches high.
6. Adjust the collar (air vents) by turning them counterclockwise until you see an inner blue triangle in the flame.
7. When heating a test tube, hold end so it is at the top of the "Blue triangle".
ALWAYS POINT TEST TUBE AWAY FROM YOU
8. When finished, turn off the main gas valve. Wait until the burner cools and then close the valve on the Bunsen burner and the collar (air vents).

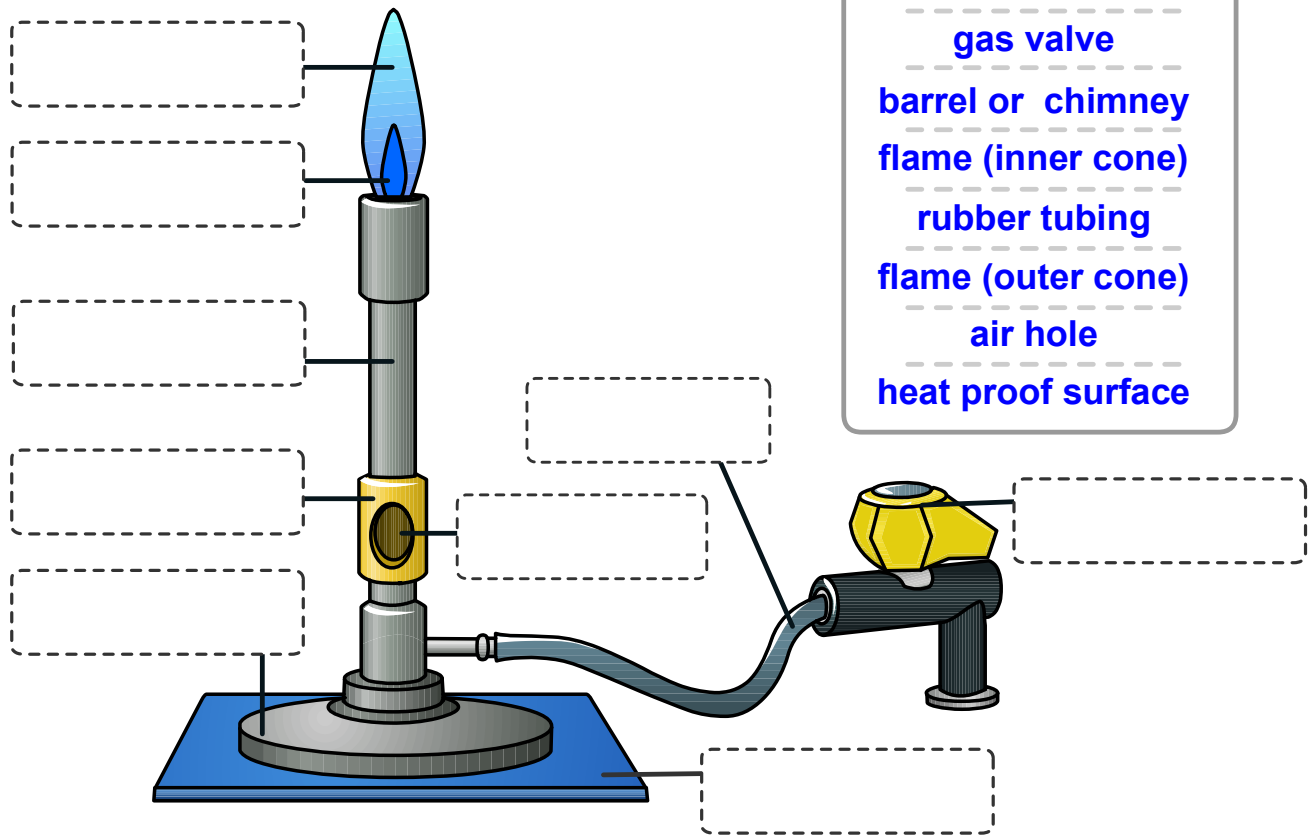
Gas Valve



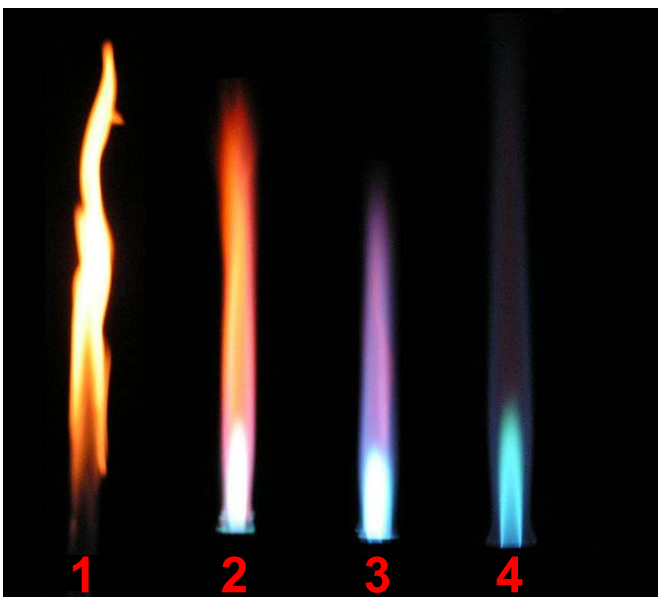
The Bunsen Burner (1)

Label the Bunsen burner

Use the phrases shown below to label the diagram.



Bunsen burner flames and air hole positions



- 1** Air hole closed: a yellow, sooty flame often called the 'safety flame'. Use this hole position when not in use or when lighting
- 2** Air hole slightly open
- 3** Air hole half open
- 4** Air hole fully open: very hot roaring blue flame