

Bunsen Burner

Mr. Skirbst

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Device developed by

Robert Bunsen

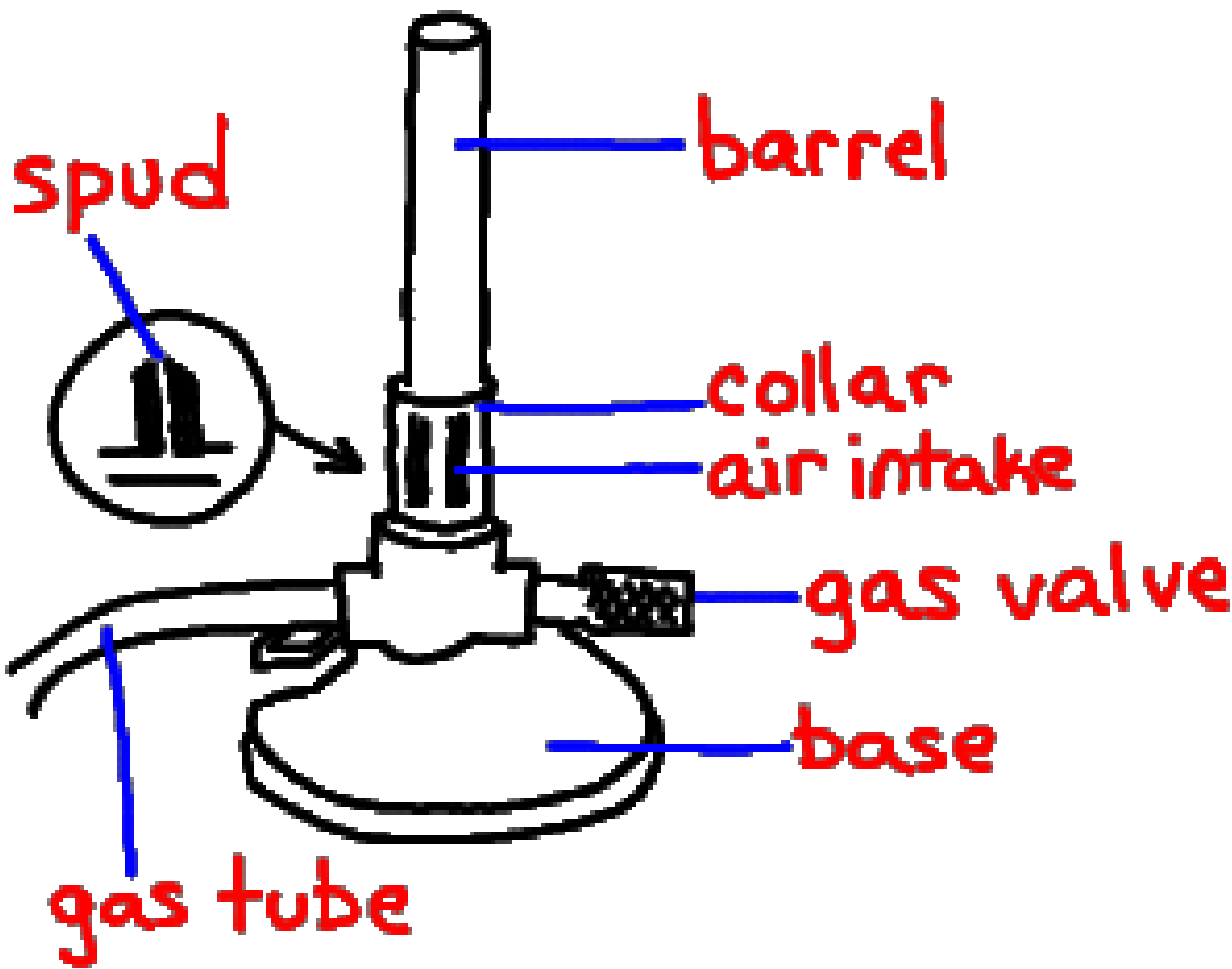
used to produce a

hot, efficient flame



*Review diagram of
Bunsen Burner*







"BAD"



"GOOD"

yellow flame
not as hot or efficient



blue flame
hot and efficient



Steps to light burner

FIRST, prepare your area!

Steps to light burner

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- 1. Clear Table (NOTHING on or under)***

Steps to light burner

FIRST, prepare your area!

- 1. Clear Table*
- 2. Check Clothing (sleeves, hoods, strings, jewelry, shoes, etc.)*

Steps to light burner

FIRST, prepare your area!

- 1. Clear Table*
- 2. Check Clothing*
- 3. Put Hair back (if it is too long)*

Steps to light burner

FIRST, prepare your area!

- 1. Clear Table*
- 2. Check Clothing*
- 3. Put Hair back*
- 4. Clear Floor (NOTHING on floor)*

Burner Lab Safety

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Things to know:

1. Fire Extinguishers (A, B, C)

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3. Emergency Shower

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4. Eye Wash Fountain

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5. Main Gas Shut-Off

Burner Lab Safety

Things to know:

1. Fire Extinguishers (A, B, C)
2. Fire Blanket
3. Emergency Shower
4. Eye Wash Fountain
5. Main Gas Shut-Off
6. Wear GOGGLES!

Steps to light burner

STEP 1: Familiarize yourself with the *parts of the Bunsen burner* before going on to the next step.

Steps to light burner

(1st Step in lighting burner)

STEP 2: Get Ready: Select a “Safety Person” to operate the jet and a “Burner Person” to operate the burner.

Steps to light burner

STEP 3: Check System: Check the *tightness* of the gas tube connections. Is the *valve closed*? Is the *jet closed*? Is the *collar closed*?

Steps to light burner

STEP 4: System On: Turn the gas *jet on* and light a match, then quickly go to the next step.

Steps to light burner

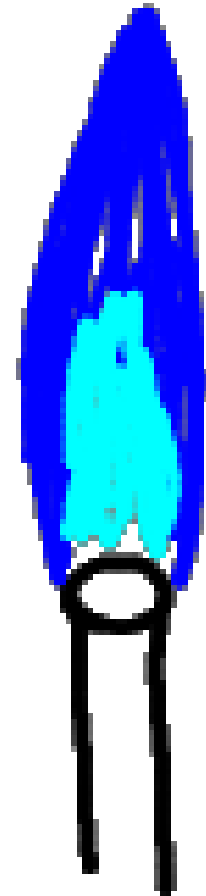
STEP 5: Light Burner: Open the valve on the burner and hold the match over the barrel. (NOTE: If the flame does not light within two seconds, IMMEDIATELY close the gas valve and jet and return to step 3 above.)

Steps to light burner

STEP 6: Adjust Flame: In order to obtain a “good flame,” ***adjust the collar*** in order to regulate the amount of air mixing with the fuel.



"BAD"



"GOOD"

Steps to light burner

STEP 7: Follow the teacher's ***instructions*** at this point.

Steps to light burner

STEP 8: Shut Down: Close the collar first! Then close the gas jet. Finally, close the gas valve on the bottom of the burner. Allow your unit to cool before disassembling it.