

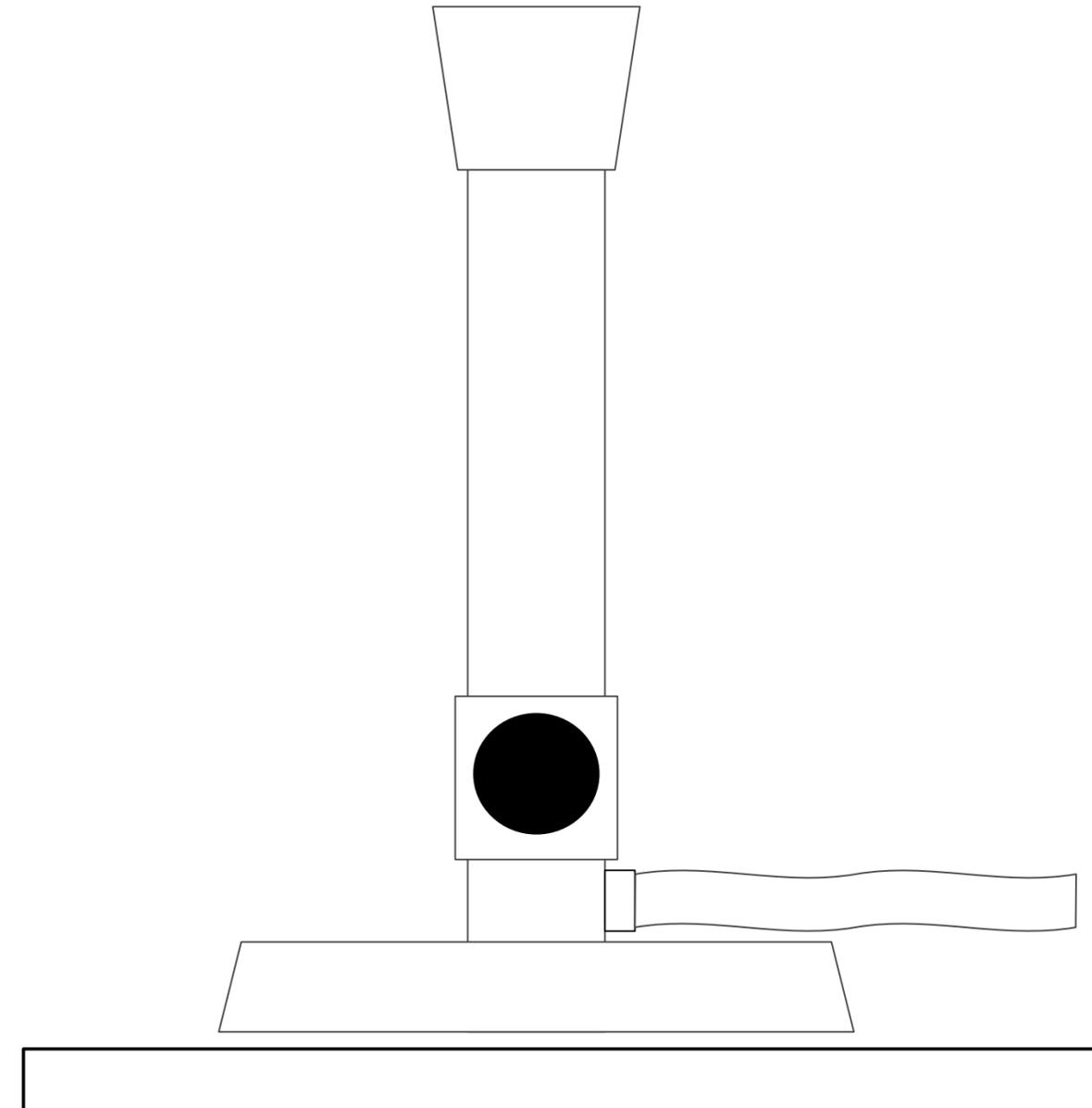
Physics - Key Stage 3 - Energy

Lesson 3: Investigating Energy Transfers

Mrs Evans



**Independent
Practice:
label all parts of the
Bunsen burner**



Independent Practice: order the steps

Turn on the gas

Extinguish the match

Attach rubber tube to gas tap

Put Bunsen burner on heat proof mat

Twist the collar so the air hole is closed

Light a match and hold the match in one hand

Put a heat proof mat on the table to protect the desk

Stay with your Bunsen burner at all times while it is on

Hold the match just above the Bunsen burner until you see the gas light



Independent Practice: answer the questions

1. What is an independent variable?
2. What is a dependent variable?
3. What is a control variable?
4. What are the two different types of flames called?
5. What type of word should you start each step of a method with?



Independent Practice: write a conclusion using the scaffold

The flame which transfers the most energy was ____ a ____

I know this because it had ____ b ____

The temperature increase for this flame was ____ c ____
whereas the ____ d ____ flame had a temperature rise of
____ e ____

During the investigation, the ____ f ____ energy store of the
gas decreases and the ____ g ____ energy store of the water
and the surroundings increases.

Flame type	Temperature rise after 3 minutes (*C)
	Average
Roaring	24
Safety	8

