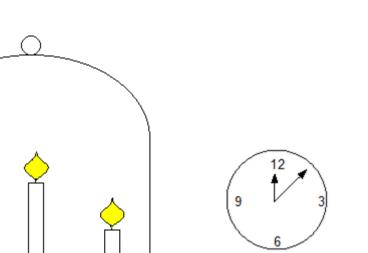
Task: Make a prediction

• Which candle(s) will go out first?

A. Candle A

- B. Candle B
- C. Candle C
- D. The three candles go out at the same time

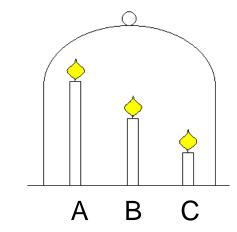




Task: Make a prediction

- Which candle(s) will go out first?
- Evidence that supports:

| Candle A | |
|------------------|--|
| Candle B | |
| Candle C | |
| At the same time | |

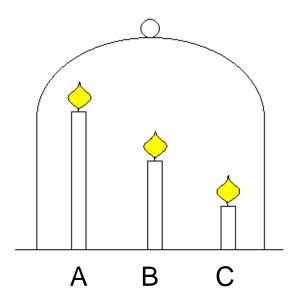




Experiment:



- Which candle went out first?
- Find the evidence cards that supports the result

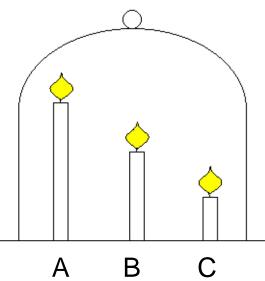


Experiment:

- Which candle went out first?
- Find the evidence cards that supports the result
- Evidence 1 and 4 do not support the result. Are they false statements?

Evidence 1: Burning requires fuel.

Evidence 4: Carbon dioxide is denser than air.

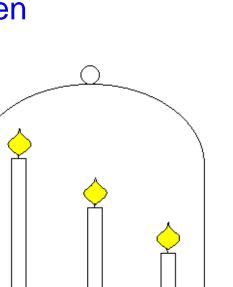




Experiment:

 Proposed explanation: Hot carbon dioxide from combustion floats to the top of the bell jar, displacing the oxygen

- Carbon dioxide is a colourless gas
- Modify the experimental set-up to show that carbon dioxide has indeed accumulated at the top



B

Α

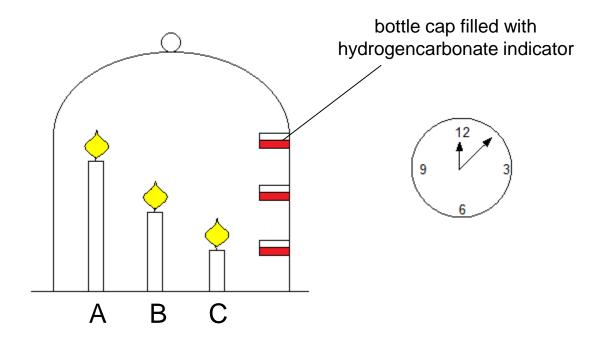
С



By direct method



 By hanging bottle caps filled with the hydrogencarbonate indicator to test the CO₂ level at different height levels



By direct method



 By a CO₂ gas sensor (e.g. Micro:bit gas probe) to test the CO₂ level at different height levels

