



*Rewarding Learning*

**ADVANCED SUBSIDIARY (AS)  
General Certificate of Education  
2024**

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## **Chemistry**

**Assessment Unit AS 3**

*assessing*

**Module 3: Practical Examination**

**Practical Booklet A**

**[SCH31]**

**FRIDAY 3 MAY, MORNING**

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**MARK  
SCHEME**

1 (a) A is ethanol B is cyclohexene

colourless liquid

[1]

(b)

| Colour of pH paper | Approximate pH |
|--------------------|----------------|
| yellow/green [1]   | 5–7 [1]        |

[2]

(c) blue/clean (flame)

[1]

(d) orange [1] green [1]

[2]

(e) (i) colourless

[1]

(ii) two layers [1]

both colourless/top layer colourless and bottom layer cloudy [1]

[2]

(f)

| Colour of pH paper | Approximate pH |
|--------------------|----------------|
| yellow/green [1]   | 4–7 [1]        |

[2]

(g) smoky [1]

orange [1] (flame)

[2]

(h) (i) purple (solution)

[1]

(ii) brown

[1]

AVAILABLE  
MARKS

15

|          |   |     |                            |
|----------|---|-----|----------------------------|
| <b>2</b> | <b>(a)</b> mass recorded to 2 decimal places with unit  | [1] | <b>AVAILABLE<br/>MARKS</b> |
|          | <b>(b)</b> temperature recorded to the nearest whole number with unit                                 | [1] |                            |
|          | <b>(c)</b> table with heading time and unit [1]<br>table with heading temperature and unit [1]        | [3] |                            |
|          | <b>(d)</b> mass recorded to 2 decimal places with unit  | [1] |                            |
|          | <b>(e)</b> correct calculation <b>(a)</b> – <b>(d)</b> with unit                                      | [1] |                            |
|          | <b>(f)</b> correct calculation: final temperature in the table – <b>(b)</b> with unit                 | [1] |                            |
|          | <b>(g)</b> correct calculation using temperature change calculated in <b>(f)</b>                      | [1] |                            |
|          | <b>(h)</b> correct calculation using mass calculated in <b>(e)</b> and heat transferred in <b>(g)</b> | [1] |                            |
|          | <b>Total</b>  |     | <b>10</b>                  |
|          |   |     | <b>25</b>                  |