Recording Format for Qualitative Analysis Observations

1. Colour Changes

Task	Requirements:
	Describes initial and final colour of reagent
Adding 4 calculation to	Example:
Adding 1 solution to another	Purple solution turns colourless.
Heating solids	Example:
	White solid turned yellow.

2. State Changes

Task	Requirements:
	Describes initial and final state of reagent
	Example:
Adding a liquid to a solid or vice versa / heating suspensions	White solid dissolved to form a colourless solution.
	Example:
Heating solids	White solid melted to form a colourless liquid.
	Example:
Heating solids that sublime	White solid vapourised to produce a white fumes (which condensed on the cooler part of the test tube).

3. Separations

Task	Requirements:
	Describes colour and state of substances for all components.
	Example:
Filtration	
	A colourless solution was obtained as the filtrate.
	A white solid was obtained as the residue.

4. Precipitate formation

Task	Requirements: Describes formation of precipitate, stating its colour. In addition, describes solubility of precipitate with excess reagent.
Adding 1 solution to another	Example: Formation of a white precipitate, soluble in excess NaOH(aq), forming a colourless solution. Or
	Formation of a white precipitate , insoluble in excess dilute HNO ₃ (aq)
Negative observation for standard reagents	No precipitate formed. Not accepted: No observable change / No reaction / Nothing happened

5. Production of gases

Task	
	Requirements:
Adding 1 solution to another solution / solid or vice versa	Describes formation of gas, stating both the colour and smell of gas and describe rate of production of gas.
	In addition, describes solubility of precipitate with excess reagent.
	Example:
	Brisk effervescence of a colourless and odourless gas.
Hasking of callida	Requirements:
Heating of solids	Describes formation of gas, stating both the colour and smell of gas.
	Example:
	Colourless, pungent gas evolved.

Testing for the gas	Requirements:
	Describes the correct reagent and complete observation.
	Examples:
	Moist blue <u>litmus paper</u> turned pink and bleached it.
	(for SO ₂ , Cl ₂ only)
	 Does not have any effect on moist litmus paper (H₂ and O₂)
	 Bubbled into limewater forming a white precipitate.
	 extinguished a <u>burning splint</u>.