Chemistry	12
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Unit 3: Solubility

Name:_____

Partner: _____ Block: _____

Date:

Identifying Unknown Solutions Using Qualitative Analysis

		Beginning	Developing	Accomplished	Exemplary	
Overall Presentation/Format		Lab report does not reveal objectives, results, and/or has made no attempt at analysis.	Lab report reveals basic objectives and results. Analysis attempted, but does not reveal relevance.	Organized lab report with definite objectives, results, and relevance.	Organized and professional lab report with clear communication of creative, original thinking that demonstrates science as a process.	
		 Written in pencil or coloured pens White out is used Frequent, obvious grammatical and spelling errors that confuse the reader Headings are missing Sections are missing 	 Written in messy blue/black pen No white out used, but mistakes are scribbled out Some distracting grammar and spelling errors which do not create confusion Title/headings are not underlined All sections are included, but out of order 	 Written in blue/black pen No white out used, mistakes striked with one pen line Minimal Grammar and spelling errors Title/headings are underlined Standard lab report format is followed 	 Neatly written in blue/black pen No white-out used, mistakes striked with one pen line using ruler Grammar and spelling correct throughout Title/headings are neatly underlined with ruler Crisp, neat, organized and professional lab report format that pleases the eye 	
Pre-Lab	Course, Unit, Date, Name, Partner's Name, Block	 Missing Name and/or Partner's Name Date does not coincide with date in the lab 	 Name, Partner's Name, and Proper Data included, but missing Course, Unit or Block 	 Course, Unit, Name, Partner's Name, proper Date, and Block all included but out of order 	 Course & Unit at top left header Name, Partner's Name, proper Date, and Block at top right header 	
	Title	• There is no title	 Used title given in lab handout 	• Title does not reveal purpose of lab or minimal change from given purpose	 Title reveals purpose of lab; goes beyond given title 	
	Purpose	 Point form Some objectives are missing 	 Poor sentence structure(fragments) Not all objectives are clear to the reader Re-wording of objectives given in lab handout 	 Full sentences All objectives clear, but no predictions 	 Clear communication through structured sentences that connect one idea to the next Clearly identifies objectives and hypotheses/predictions 	
	Materials	 Material list missing or incomplete Hazardous chemicals are not highlighted 	 All materials are listed Hazardous chemicals are not highlighted 	 All materials are listed All hazardous chemicals are highlighted 	 All materials are listed All hazardous chemicals are described in detail with safety precautions 	

	Procedure		0	unclear		 Unorganized, difficult to follow Words, commands are unclear Some minor steps are missing or unclear Disposal incomplete or unclear 		 Organized Clear word, commands, but not concise All steps included Complete disposal instructions 		 Excellent organization, easy to follow. Clear, concise word commands All steps included Disposal instructions complete and clear 	
	Results	Prep	0	units		 / O Tables not organized/neat O All table headings include units O Tables are not titled 		 All tables are neatly prepared All table headings include proper units All tables are titled 		 All tables are neatly prepared with ruler All table headings include proper units All tables are titled and labeled by number 	
During Lab		Observations	0	No or limited qualitative description Personal opinions given ex) " think it smells yucky"	0	Some qualitative description	0	Qualitative description given for all chemicals (reactants and products) Important events are noted	0	Detailed qualitative description given for all chemicals (reactants and products) Detailed log of experiment progress	
Post Lab	Discussion	Questions	0	Point form Answers are incorrect or incomplete	0	Poor sentence structure(fragments) All answers demonstrate a minimal understanding of concepts	0	Full sentences All answers demonstrate anunderstanding of concepts with minimal errors	0	Clear communication through structured sentences that connect one idea to the next All answers demonstrate a thorough, in depth understanding of concepts	
	Conclusion Error	& Sources of	0	Point form Purpose and/or results not referred to	0	Poor sentence structure (fragments) Refers to purpose, summarizes results without insight	0	Full sentences Answers purpose by summarizing results	0	Clear communication through structured sentences that connect one idea to the next Answers purpose by comparing key results to predictions/ hypothesis (supported/not supported/rejected)	
			0	No sources of error	0	Sources of error not relevant	0	States 1-2 relevant sources of error	0	States 2 or more insightful sources of error and suggests improvement to this lab Connects to big picture	
			0	Personal opinions are included such as "I like this lab," "This lab was FUN!"	0	Does not discuss relevance	0	Reveals relevance of results	0	(relevance) Asks new questions and suggests new experiments for the future	