

## Spill Response Plan Rubric

	<b>Approaching (2)</b>	<b>Meeting (3)</b>	<b>Mastery (4)</b>
Questioning and predicting	A research question of relevance is stated without context. No rationale for prediction Background information is superficial.	Little evidence of personal engagement and initiative in developing the research question. Limited justification for prediction. Background information is relevant.	A fully focused research question is clearly described. Evidence of personal engagement is clear with significant independent thinking with a well justified hypothesis. Background information enhances understanding.
Planning and conducting	Methodology of the investigation is appropriate to a limited extent. Limited awareness of safety, ethical or environmental issues.	The methodology of the investigation is mainly appropriate. Some consideration of reliability and sufficiency of the collected data, as well as safety, ethical or environmental issues.	Evidence of personal input and initiative in the designing, implementation or presentation of the investigation. Plans include safety considerations
Processing and analyzing data	Insufficient raw data to support a valid conclusion to the research question.	The report includes relevant but incomplete raw data.	The report includes sufficient relevant quantitative and qualitative raw data. Full and appropriate consideration of the impact of measurement uncertainty.
Evaluating	Conclusion is not relevant to the research question or is not supported by the data presented. Superficial comparison to the case studies.	Conclusion is relevant to the research question and supported by the data presented, with comparison to the case studies.	Conclusion is relevant to the research question and is justified with support from the data presented. Conclusion is correctly described and justified through relevant comparison to the case studies.

Applying and innovating	Strengths and weaknesses of the investigation are restricted to an account of procedural issues faced. Very few realistic suggestions for the improvement and extension of the investigation.	Some realistic and relevant suggestions for the improvement and extension of the investigation. Strengths and weaknesses of the investigation, such as limitations of the data and sources of error, are described.	Student has discussed realistic and relevant suggestions for the improvement and extension of the investigation. Strengths and weaknesses of the investigation are discussed and provide evidence of a clear understanding of the issues involved.
Communicating	Presentation is unclear, making it difficult to understand the focus, process and outcomes. The understanding of the investigation is obscured by the presence of inappropriate or irrelevant information. There are many errors in the use of subject-specific terminology and conventions.	The report is not well-structured: the necessary information on focus, process and outcomes is missing or is presented in an incoherent or disorganized way. The use of subject-specific terminology and conventions is appropriate and correct. Any errors do not hamper understanding.	The presentation of the investigation is clear. Any errors do not hamper the understanding of the focus, process and outcomes. The report is well-structured and is clear: the necessary information on focus, process and outcomes is present and is presented in a coherent way. The report is relevant and concise, thereby facilitating a ready understanding of the focus, process and outcomes of the investigation.