Features of Quality for the Extended Experimental Investigation	
Exceptional	
Investigating	 Forms a testable hypothesis or prediction with justification Describes considerations related to reliability and fairness Outlines appropriate safety considerations, and describes the method used to accurately collect and record good quality, reliable data in a manner that could be easily repeated Uses an innovative approach that truly enhances the work Records a sufficient amount of good quality data
Communicat	 Presents data in the most appropriate way using relevant scientific terminology and informative representations; calculations, if any, are performed to a high degree of accuracy Describes the relationships between the variables
Knowledge and understanding	 Provides a justified conclusion supported by the data; identifies and explains any anomalous data Uses relevant science knowledge to assess and describe whether the hypothesis has/has not been supported Describes in detail the strengths and weaknesses of their own investigations, including appropriate improvements and or refinements, or explains fully why no further improvements could reasonably be achieved
Above expectations	
	 Forms a testable hypothesis or prediction with justification Identifies the variable to be measured and the variable to be changed Outlines appropriate safety considerations, and describes the method and equipment used to collect and record data Records a sufficient amount of good quality data
	 Displays data neatly and accurately, using relevant scientific terminology and informative representations; calculations, if any, are performed to a high degree of accuracy Describes the relationships between the variables
	 Draws a conclusion consistent with the data and comments on whether the conclusion supports the hypothesis Identifies the strengths and weaknesses of the investigation and suggests appropriate improvements, or explains why the procedures were of sufficient quality

In line with expectations

- With limited guidance, forms a testable hypothesis/prediction
- Describes a safe method used to collect data-some of the steps are understandable but lack some detail
- Records raw/primary data
- Displays data on simple tables, charts or graphs, allowing for some errors in scaling or plotting
- States a relationship between the variables
- Draws a conclusion based on data collected, identifies some features of the investigation that could be improved and suggests improvements

Yet to meet expectations

- Uses a given investigation question
- Is directed in using equipment to collect and record data
- Data collection method described is not repeatable
- Displays data on incomplete tables, charts or graphs, allowing for significant errors in scaling or plotting
- Comments on the investigation without making a conclusion/refinement to the investigation