

AF5: Evaluating Scientific Investigations



	<u>Evaluate investigations</u>	<u>Evaluate evidence</u>	<u>Analyse evidence</u>	<u>Explanation of evidence</u>
Level 3	Suggest improvements in the method		Identify patterns in data linking cause and effect	
Level 4	Give reasons for suggested improvements in their method		Identify patterns in graphs and outline the relationship	Identify scientific evidence used to make a conclusion
Level 5	Evaluate the effectiveness of the method	Account for differences in repeated measurements	Make a valid conclusion to support the evidence	↓
Level 6	Explain the quality of the data	Explain the quality of the data	Use detailed scientific ideas to explain a valid conclusion	Explain the limitations of the evidence
Level 7	Suggest how the reliability of the data could be improved	Justify whether there is sufficient evidence to support a conclusion	Justify a conclusion in terms of the evidence	Justify alternative interpretations to the data
Level 8	Justify the procedure used and suggest an alternative strategy to carry out the investigation	Give valid reasons for anomalous results	Justify a conclusion from complex data	Weigh up conflicting evidence to justify a conclusion