KS3 ASSESSMENT CRITERIA – YEARS 7-9 SCIENCE

Science - Year 7

Focus	Beginning (B)	Working Towards (WT)	Expected Standard (ES)	Working Above Standards (WA)	Well Above/ Outstanding (O)
Knowledge & Understanding of Science	Demonstrate basic knowledge of information and understanding. Written work is poorly organised. Key words seldom used appropriately. Literacy & numeracy skills are weak.	Demonstrate some knowledge of information and understanding. There is some evidence written work is organised. Key words are sometimes used appropriately. Literacy & numeracy skills are more evident.	Demonstrate knowledge of information and understanding. Written work is organised. Key words being used appropriately. Literacy & numeracy skills are adequately demonstrated.	Demonstrate good knowledge of information and understanding. Written work is well organised. Key words are frequently being used correctly. Literacy & numeracy skills are used to a good standard.	Demonstrate outstanding knowledge of information and understanding. Written work exceptionally organised. Key words are always being used correctly. Literacy & numeracy skills are used to an excellent standard.
Using investigative approaches	Is able to carry out a fair test from a given method, but doesn't fully appreciate the need to control variables in investigations to test a hypothesis. Is able to make measurements and	Has some understanding about the importance of fair testing in investigations to test a given hypothesis. Is able to select appropriate equipment, with some guidance, to	Decides when it is appropriate to carry out fair tests in investigations to test a given hypothesis. Is able to select appropriate equipment to test specific questions under investigation and can	Is able to identify the significant variables in an investigation, and can explain the hypothesis partially using scientific knowledge and understanding. Can explain why specific pieces of	Is able to identify the independent and dependent variables in an investigation, and can explain the hypothesis using scientific knowledge and understanding. Is able to justify their choices of data

	record them in a given table of results. Can sometimes understand risks in a given investigation, but requires extra supervision	test hypotheses and can make measurements. Can understand risks in an investigation, when they are explained.	make measurements. Can identify some risks to themselves and others.	apparatus are appropriate for the questions under investigation and is able to collect a reliable set of data, with repeats. Make and act on suggestions to control obvious risks.	collection and proposed number of observations and measurements. Uses suitable ranges, numbers or values for measurements and observations. Is able to recognise a range of familiar risks and take action to control them.
Working critically with evidence	Needs some guidance to identify patterns in data. Needs some guidance to make simple conclusions from data presented in various formats. Is able to understand suggested improvements to the method, but is not able to make suggestions independently.	Is sometimes able to identify patterns in data presented in various formats. Is sometimes able to draw simple conclusions from data presented in various formats. Is able to suggest basic improvements to the method.	Is able to identify patterns in data presented in various formats, including line graphs. Is able to spot anomalous results. Is able to draw straightforward conclusions from data presented in various formats. Is able to suggest improvements to the method, giving reasons.	Is able to interpret data in a variety of formats, recognising obvious inconsistencies. Is able to offer explanations for anomalous results. Is able to draw conclusions which are based on more than one piece of supporting evidence. Can evaluate the effectiveness of their working methods, making practical	Is able to suggest reasons, based on scientific knowledge and understanding, for any inconsistencies in the data collected. Is able to manipulate data and information in order to make conclusions that are consistent with the evidence collected. Can explain the conclusions using scientific understanding and knowledge.

				suggestions for improving them.	Is able to make valid comments on the quality of the data collected.

KS3 ASSESSMENT CRITERIA – YEARS 7-9 SCIENCE

Science - Year 8-9

Focus	Beginning (B)	Working Towards (WT)	Expected Standard (ES)	Working Above Standards (WA)	Well Above/ Outstanding (O)
Knowledge & Understanding of Science	Demonstrate some knowledge of information and understanding. There is some evidence written work is organised. Key words are sometimes used appropriately. Literacy & numeracy skills are more evident.	Demonstrate improving knowledge of information and understanding. Written work is betterorganised. Key words are used more often. Literacy & numeracy skills are improved.	Demonstrate knowledge of information and understanding. Written work is organised. Key words being used appropriately. Literacy & numeracy skills are used confidently.	Demonstrate good knowledge of information and understanding. Written work is well organised. Key words are frequently being used correctly. Literacy & numeracy skills are used to a good standard.	Demonstrate outstanding knowledge of information and understanding. Written work exceptionally organised. Key words are always being used correctly. Literacy & numeracy skills are used to an excellent standard.
Using investigative approaches	Has some understanding about the importance of fair testing in investigations to test a given hypothesis. Is able to select appropriate equipment, with some guidance, to	Decides when it is appropriate to carry out fair tests in investigations to test a given hypothesis. Is able to select appropriate equipment to test specific questions under investigation and can	Is able to identify the significant variables in an investigation, and can explain the hypothesis partially using scientific knowledge and understanding. Can explain why specific pieces of	Is able to identify the independent and dependent variables in an investigation, and can explain the hypothesis using scientific knowledge and understanding. Is able to justify their choices of data	Is able to indepently plan an investigation identifying all variables. Can collect data which is valid for the purpose analysis. Always using correct units with accuracy and precision across a

	test hypotheses and can make measurements. Can understand risks in an investigation, when they are explained.	make measurements. Can identify some risks to themselves and others.	apparatus are appropriate for the questions under investigation and is able to collect a reliable set of data, with repeats. Make and act on suggestions to control obvious risks.	collection and proposed number of observations and measurements. Uses suitable ranges, numbers or values for measurements and observations. Is able to recognise a range of familiar risks and take action to control them.	suitable range. Full risk assessment is always undertaken.
Working critically with evidence	Is sometimes able to identify patterns in data presented in various formats. Is sometimes able to draw simple conclusions from data presented in various formats. Is able to suggest basic improvements to the method.	Is able to identify patterns in data presented in various formats, including line graphs. Is able to spot anomalous results. Is able to draw straightforward conclusions from data presented in various formats. Is able to suggest improvements to the method, giving reasons.	Is able to interpret data in a variety of formats, recognising obvious inconsistencies. Is able to offer explanations for anomalous results. Is able to draw conclusions which are based on more than one piece of supporting evidence. Can evaluate the effectiveness of their	Is able to suggest reasons, based on scientific knowledge and understanding, for any inconsistencies in the data collected. Is able to manipulate data and information in order to make conclusions that are consistent with the evidence collected. Can explain the conclusions using scientific understanding and	Can analyse data by manipulation and graphical representation. Can identify patterns and anomalies in data before drawing a valid conclusion. Can critically evaluate the method and data and suggest appropriate improvements.

			working methods, making practical suggestions for improving them.	knowledge. Is able to make valid comments on the quality of the data collected.	