LEVEL OF LEARNING THRESHOLD GRID   Year 9

DEPARTMENT/SUBJECT: **SCIENCE**

BOURNEMOUTH SCHOOL FOR GIRLS

Assessment area	Developing	Secure	Excellent
	GCSE 1 - 3	GCSE 4 - 6	GCSE 7 - 9
SCIENTIFIC KNOWLEDGE	• Use scientific terms to describe GCSE processes • Recall some GCSE scientific facts	• Use appropriate GCSE terms to describe scientific processes • Consistently recall GCSE scientific facts	• Consistently use accurate GCSE terms • Demonstrate a thorough knowledge of GCSE concepts
UNDERSTANDING AND APPLICATION OF KNOWLEDGE	• Demonstrate a limited understanding of GCSE scientific processes	• Demonstrate appropriate GCSE knowledge and understanding • Apply knowledge and understanding to familiar GCSE contexts	• Consistently apply GCSE knowledge and understanding to unfamiliar contexts • Devise questions to check and develop understanding • Integrate concepts from other disciplines • Distinguish between key GCSE terms e.g. moles and concentration
PRACTICAL SKILLS	• Recall some steps in required practicals • Make basic comments about procedures in required practicals	• Recall details of required practicals • Evaluate methodologies and suggest improvements • Write conclusions based on some scientific evidence	• Apply required practicals to unfamiliar contexts • Use evidence from experiments to write well-balanced conclusions

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DEPARTMENT/SUBJECT: **SCIENCE**

DATA HANDLING AND MATHEMATICS (OR NUMERACY)	• Solve questions by substitution into equations • Perform basic calculations	• Use information from graphs to support conclusions • Confidently rearrange equations containing up to three variables	• Confidently rearrange equations of more than three variables • Use a range of mathematical skills to perform scientific calculations • Evaluate choice of lines of best fit • Interpret mathematical trends in graphs

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DEPARTMENT/SUBJECT: SCIENCE

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DEPARTMENT/SUBJECT: **SCIENCE**

Assessment area	Developing	Secure	Excellent
	• Recall scientific facts. • Limited use of key words. • Use a given model.	• Explain scientific facts. • Use key words in familiar contexts. • Select a valid model.	• Apply facts to unfamiliar contexts. • Use key words in unfamiliar contexts. • Design/use a model to explain a concept.
DATA HANDLING AND MATHEMATICAL SKILLS	• Use correct units. • Label data correctly. • Plot a graph. • State relationship in data.	• Simple processing of data e.g. mean. • Perform calculations using data. • Choose correct equations. • Select suitable graph. • Plot accurate graph. • Make a simple conclusion.	• Processing data further e.g. removing anomalies from mean. • Rearrange equations. • Interpolating / extrapolating data from graphs. • Explain relationships in data.
PRACTICAL SKILLS	• Use equipment correctly. • Follow a simple method. • Identify variables. • Recognise poor methodology.	• Select equipment and use it safely. • Plan a valid experiment. • Correctly identify DV and IV. • Identifies problems with procedure.	• Use appropriate equipment to collect accurate data. • Design experiments to solve problems. • Identify and explain need to cv's. • Suggest improvements to procedure.

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DEPARTMENT/SUBJECT: **SCIENCE**

LEVEL OF LEARNING THRESHOLD GRID   Year 9

SCIENTIFIC KNOWLEDGE			
Assessment area	**Developing**	**Secure**	**Excellent**
SCIENTIFIC KNOWLEDGE	• Limited recall of key terminology.	• Moderately recall scientific terminology.	• Consistently high level of recall of key scientific terms.
UNDERSTANDING AND APPLICATION	• Limited understanding and application of key ideas, models or concepts.	• Able to understand and apply some key ideas, models and concepts.	• Consistently high standard of understanding and application of key ideas, models or concepts.
PRACTICAL SKILLS	• Requires frequent instruction and guidance on carrying out and safety.	• Can carry out experiments after initial instruction to safely obtain results.	• Plan simple investigation, identify hazards and taking appropriate action.

LEVEL OF LEARNING THRESHOLD GRID   Year 9

DEPARTMENT/SUBJECT: **SCIENCE**

DATA PROCESSING AND MATHEMATICS	• Can record results and plot a graph.	• Can record data in a table and plot a meaningful graph. Able to use an equation not.	• Record data in a conventional table correctly, plot the most appropriate graph and interpret relationship between variables. Able to transform equation and use.

LEVEL OF LEARNING THRESHOLD GRID   Year 9

DEPARTMENT/SUBJECT: SCIENCE

	Developing	Secure	Excellent

LEVEL OF LEARNING THRESHOLD GRID   Year 9

DEPARTMENT/SUBJECT: **SCIENCE**

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