





Name _____



My Level 3 Science Skills

What I Need to Do for Level 3 (page 1)	Can I Do It? ☺ ☹
Demonstrate initiative and increasing independence in identifying a number of key questions and in formulating aims, predictions and hypotheses based on information, observations and knowledge.	
Design procedures to test a hypothesis and identify the independent, dependent and controlled variables, with limited assistance.	
Anticipate most risks and hazards.	
Demonstrate increased levels of collaboration and initiative in decision-making about samples, measurements, equipment and procedures to use.	
Apply safety measures to control all risks and hazards identified.	
Collect increasingly complex data and information using a range of methods and equipment, for example, data and software analysis tools (where available).	
Include a control experiment when appropriate in experimental design.	
Manage identified controlled variables to ensure validity of results.	

What I Need to Do for Level 3 (page 2)	Can I Do It?  
Select appropriate methods to record data/information and demonstrate increased precision in use of terminology, units and scales.	
Interpret and analyse data and information to establish relationships between the independent and dependent variables and links to the original hypothesis.	
Establish links between the findings, aim and hypothesis.	
Relate findings to scientific knowledge and understanding.	
Draw a conclusion based on results gathered and in relation to the aim.	
Begin to consider alternative explanations and apply or extend conclusions to new situations or to identify further studies.	
Evaluate a range of aspects of the inquiry/investigation, including the relevance and reliability of evidence, and suggest at least two ways of improving the methodology, if repeated.	
Present data/information using an increasing range of tables, charts, diagrams and graphs and using suitable scales, with limited assistance.	
Communicate effectively in a range of ways, for example, orally and through scientific report writing.	
Present findings using appropriate formats for different audiences.	

What I Need to Do for Level 3 (page 3)	Can I Do It?  
Provide supporting evidence and quotes and acknowledge sources with limited assistance.	
Apply scientific analytical thinking skills, with increasing independence, working with less familiar and more complex contexts.	
Apply understanding of an increasing range of science concepts to solve problems and provide solutions.	
Demonstrate further development of creative thinking including through the engineering processes of design, construction, testing and modification.	
Demonstrate understanding of the impact of science on society and debates and discusses the moral and ethical implications of some scientific developments, demonstrating respect for the views of others.	
Express informed views about topical scientific issues, including those featured in the media, based on evidence and demonstrating understanding of underlying scientific concepts.	
Demonstrate increased awareness of creativity and inventiveness in science and the use of technologies in the development of sciences.	
Demonstrate understanding of the relevance of science to our future lives and the role of science in an increasing range of careers and occupations, including science, technology, engineering and mathematics (STEM) careers.	