






Big Idea	Acquiring 15%	Developing 30%	Securing 45%	Consolidating 60%	Extending 80%
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1. Scientific Big Ideas Knowledge 	I am beginning to use key words when talking about the big six ideas.	I am beginning to use key words when writing about the big six ideas.	I can recall and use some key words when writing about the big six ideas.	I can recall and apply most key words when explaining about the big six ideas.	I can give examples and relate the scientific theory from the big six ideas to unfamiliar contexts and understand models of abstract concepts.
2. Working scientifically Practical 	I am beginning to learn how to work safely in the lab given specific apparatus. I can record my results with support	I can use selected apparatus safely. I record my own results from investigations using a provided format,	I can use the apparatus safely and measure chemicals by mass and volume, selecting the appropriate apparatus. I am starting to design my own results tables.	I can select and use measuring apparatus with confidence and work safely in the lab while carry. I can design my own results tables and understand the purpose of the experiments.	I can select the most appropriate apparatus for a hypothesis that I have formulated independently. I understand the purpose of the experiments and work safely in the lab to record tabulated data.
2. Working scientifically Analysis 	I am beginning to describe patterns in my results	I can identify patterns in my results and use these to write a conclusion.	I can identify patterns in my results and draw an appropriate conclusion. I consider what went well and flaws in my investigation.	I routinely identify patterns in my results and draw an appropriate conclusion. I evaluate the apparatus and method used in my investigations.	I confidently draw appropriate conclusions and evaluate experiments.
3. Numeracy 	I am starting to use basic maths (eg. addition, subtraction, multiplication and dividing) in science. I need support to display my results in appropriate graphs	I am gaining confidence in choosing the appropriate mathematical function to use for specific scientific ideas. I can draw a bar chart given appropriate axes.	I can interpret a written question and use a given basic formula with appropriate units. I can draw an appropriate graph with some support	I can apply given formulae, able to rearrange and use appropriate units. I can draw an appropriate graph	I can recall and apply appropriate formulae, able to rearrange and use appropriate units. I can independently draw, and interpret graphs, including a line of best fit.
Scientific Literacy 	I am beginning to use scientific key words in a sentence. I am beginning to use correct spelling patterns and accurate punctuation	I sometimes use scientific key words in my sentences My spelling and punctuation is sometimes accurate	I sometimes use scientific key words in logical bullet points My spelling and punctuation is mostly accurate	I sometimes use scientific key words extended writing My spelling and punctuation is mostly accurate	I write clear and concise, logical paragraphs using a range of scientific key words My spelling and punctuation is consistently accurate