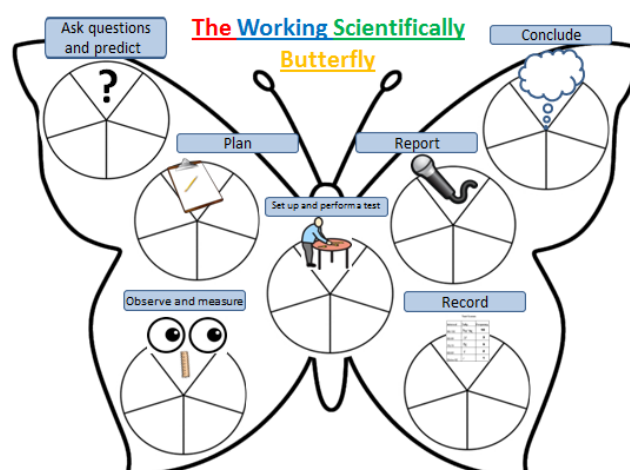


UKS2 Science Skills Ladder



Use their science experiences to explore ideas and raise different kinds of questions
Talk about how scientific ideas have developed over time
Select and plan the most appropriate type of scientific enquiry to use to answer scientific questions
Separate opinion from fact recognising which secondary sources will be most useful to research their ideas
Recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and why
Use and develop keys and other information records to identify, classify and describe living things and materials, and identify patterns that might be found in the natural environment
Make their own decisions about what observations to make, what measurements to use and how long to make them for
Choose the most appropriate equipment to make measurements with increasing precision and explain how to use it accurately. Take repeat measurements where appropriate.
Decide how to record data and results of increasing complexity from a choice of familiar approaches: scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
Look for different causal relationships in their data and identify evidence that refutes or supports their ideas
Identify scientific evidence that has been used to support or refute ideas or arguments
Use relevant scientific language and illustrations to discuss, communicate and justify their scientific ideas, use oral and written forms such as displays and other presentations to report conclusions, causal relationships and explanations of degree of trust in results

Use their results to make predictions and identify when further observations, comparative and fair tests might be needed