

Science KS3 Progress Ladder

Progress ↑	Explore and apply scientific concepts in new or real life situations.	Justify your method choices. Explain all variables. Create a thorough risk assessment.	Independently conduct experiments safely, accurately and precisely. Identify and explain incorrect results.	Justify your presentation of results. Explain patterns in your results. Thoroughly evaluate your method, suggesting improvements.	Connect learning from different contexts.	Apply mathematical skills to new and unseen scenarios.
	Analyse and compare scientific concepts.	Produce a method to test your scientific predictions. Begin to explain most variables. Create a risk assessment.	Independently, conduct experiments safely. Record observations accurately and precisely.	Plot data accurately onto your own graph. Describe patterns in relation to your predictions. Evaluate your method.	Independently seek answers.	Link more than one mathematical idea together.
	Explain and use scientific concepts.	Predict the outcome of your own method. Identify many variables and risks.	With guidance, conduct experiments safely. Produce a set of results.	Plot data accurately onto a range of graphs. Describe your results in detail. Make simple evaluations of your method.	Ask open questions.	Manipulate/rearrange information to solve a problem.
	Describe and recognise scientific ideas including keywords.	Independently, produce a simple method and risk assessment. Identify some variables.	With close supervision, follow experimental methods safely.	Plot data onto given axes with some accuracy. Begin to describe results.	Ask closed questions.	Choose what information to use to solve a problem.
	State, recall and define simple scientific ideas.	With support, produce a simple method and risk assessment.	With support, conduct experiments safely.	Read simple graphs. Rank/sequence numbers.	Enjoy learning new facts.	Complete basic calculations.
	CONCEPTS	PLANNING	CONDUCTING	CONCLUDING AND EVALUATING	CURIOSITY	NUMERACY