



Prediction	Observed Variables Categoric Data (words) - Charts					Measured Variables Continuous Data (numbers) - Graphs		
	I use experience to suggest what might happen next	I suggest what might happen in an investigation	I suggest what might happen (simple prediction)	I predict cause & effect (science prediction)	I predict a trend (relationship prediction)	I use K&U to explain my relationship	I reason K&U to make a hypothesis (relationship)	I reason K&U to generate a testable hypothesis
Equipment	I use a range of everyday items to investigate	I use a limited range of science equipment correctly (help)	I use a range of science equipment correctly	I select suitable equipment for the task	I select & use suitable equipment for the task	I select equipment with the right scale for the task (help)	I select & use equipment with right scale for the task	I select & use equipment for increased precision
	I begin to know what it means to investigate safely	I notice risk (help) & can list some common dangers	I notice risk in my investigation & know common dangers	I predict obvious risk & act on safety suggestions	I predict obvious risk & work safely (mostly)	I begin to plan to minimise risk & work safely (consistently)	I plan to minimise risk & describe safe use of equipment	I predict & control a range of risks independently
Design	I use experience to suggest an idea to investigate	I suggest an idea to investigate & ask questions	I suggest an idea to investigate from observations	I identify cause & effect in my investigation	I plan investigations by selecting variables to change	I plan investigations & ensure controlled variables kept same	I plan reliable investigations (use of variable terminology)	I plan a reliable investigations with increased precision
	I'm aware that variables change in an investigation	I begin to identify the cause variable in an investigation	I identify the cause variable correctly (label & range)	I suggest a suitable data range for a cause variable	I suggest a data range & interval for a cause variable	I suggest a data range, interval & sufficient readings	I plan to collect repeat readings (>3) & calculate mean	I plan to reduce error by care of measurement
	I follow short demo & spoken instruction with multiple parts	I follow short demo, spoken & picture instructions	I follow short spoken & written instructions in order	I follow written instructions & write a simple method	I design & write a simple ordered method (from plan)	I design & write an ordered method (controls variables)	I design & write an ordered reliable method (repeats)	I design & write a reliable method (repeats; precision)



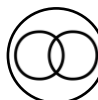
Researching & communicating:
Use secondary sources to find & organise relevant information



Observing & measuring over time:
Over short (seconds / minutes) or long (days / months) periods of time



Comparative & Fair testing:
One variable changed; others are kept the same. Use words or numbers



Identification & classification:
Sorting into groups based upon criteria



Finding patterns:
Patterns emerge from observation



Problem solving:
Applying science knowledge to find answers

WS Skills are taught & practiced **through** a range of Enquiry Type investigation