FC					Fair Testing
FS Plan	n	Plan	Plan	Plan	Plan
• • Do • •	I am curious about things that change With help I as questions about things changing I talk about my ideas for finding out how things change	 I am curious about similarities and differences With help I as questions about similarities and differences I talk about my ideas for sorting or matching things I use my senses to sort and match things I match things that are the same I find things that are similar or different I sort or group things in my own way I use simple equipment to hep me sort things e.g. boxes, hoops Review I talk about how I sorted or 	 I am curious about patterns with help, I ask questions about patterns I talk about my ideas for finding about patterns I use my senses to look closely for patterns I observe more than one thing at a time I make simple records of what I notices, with help where necessary I use simple equipment to observe and record patters Review I talk about what I have die and the patterns I noticed 	 I am curious about things in my surroundings With help, I ask questions that I can answer using secondary sources I listen carefully I know that information in books and electronic media can be used to answer questions I find pictures of things I talk to people about what they do and how things work Review I talk about things I found out 	 I am curious about how things behave With help, I ask questions about things I can test I talk about my ideas for testing and how things behave I use my senses to look closely at how things behave I carry out simple tests I make simple records of what I notice (with help if necessary) I use simple equipment to observe and record Review I talk about what I have done and what I notice I talk about whether something

	Observing over time	Identifying and classifying	Pattern seeking	Research	Fair Testing
KS 1	Plan	Plan	Plan	Plan	Plan
	 I ask questions about how and why things change With help, I identify changes to observe and measure and suggest how to do it. 	 I ask questions about how and why things are similar or different I decide what to observe to identify or sort things Do 	 I ask questions about why and how things are linked With help, I decide what patterns to observe and measure and suggest how to do it 	 I ask questions about how things are and the way they work With help, I make suggestions about how to find things out Do 	 I ask why and how questions I make comparisons about how things behave With help, I notice links between cause and effect
	 Do I use non-standard units and simple equipment to record changes I record in words or pictures, or in simple prepared formats such as tables and charts Review I identify simple changes and talk about them I sequence the changes I begin to use scientific language to talk about changes I talk about whether the change was what I expected 	 I make comparisons between simple features or objects, materials or living things I record my observations in words, pictures or simple tables I sort objects by observable and behavioural features I record my sorting in sorting circles or tables Review I identify similarities and differences and talk about them I begin to use simple scientific language to talk about how things are similar or different O try to use my records to help sort or identify other things 	 Do I use non-standard units and simple equipment to record events that might be related I record in words or pictures, or in simple prepared formats such as tables, tally charts and maps. Review I identify simple patterns and talk about them I make links between two sets of observations I begin to use scientific langue to talk about patterns I talk about whether the patterns was what I expected 	 I use simple books and electronic media to find things out I ask questions to find out what people do and how things work I record words and pictures about what I found out Review I begin to use scientific language to talk about what I found out I talk about what I found out I talk about whether the information source with useful I give an opinion about some things I found out 	 With help, I identify simple variables to measure and change I plan simple comparative tests I use non-standard units and simple equipment to record data I record in words or pictures, or in simple prepared formats such as tables or tally charts Review I talk about my data I use comparative data to rank materials or objects I use simple scientific language to describe simple causal relationships With help, I can say if my test was fair I say if the relationship is what I expected

	Observing over time	Identifying and classifying	Pattern seeking	Research	Fair Testing
UKS2	Plan	Plan	Plan	Plan	Plan
	 I decide when observing changes over time will help answer my questions I decide how detailed my observations need to be What equipment to use Make my measurements as accurate as possible Do I use equipment accurately without support I record data appropriately I present data in line graphs I interpret changes in the data 	 I decide when identifying and classifying will be helpful to answer my questions I decide what equipment, tests and secondary sources of information to use to identify and classify things Do I use a series of tests to sort and classify materials I use secondary sources to identify and classify things I make my own keys and branching databases with for or more items I use more than one piece of 	 I recognise when variables cannot be controlled and decide when patterns seeking will help to answer my question I decide how detailed my data needs to be, and which equipment to use, to make my measurements as accurate as possible I use equipment accurately to collect observations I record data appropriately and accurately I present data in scatter graphs and 	 I decide what research using secondary sources will help to answer my questions I decide which sources of information might answer my questions Do I use relevant information and data from a range of secondary sources I recognise how data has been obtained I start to notice how data has been obtained I start to notice what information 	 I recognise when variables cannot be controlled and decide when a comparative or fair test is the best way to answer my question I plan a comparative or friar test, selecting variables to measure, change and keep the same I decide what equipment to use to make my measurements as accurate as possible I use equipment accurately to collect observations I record data appropriately and
	 Interpret changes in the data I recognise the effect of changing the time and number of observations Review I draw valid conclusions from data about changes I recognise the significance of changing things over time I talk about and explain changes using scientific knowledge and understanding I evaluate how well I observed over time 	 I use indic than one piece of scientific evidence to identify and classify things Review I draw valid conclusions when sorting and classifying I recognise the significance of sorting and classifying I talk about and explain what I have done using scientific knowledge I evaluate how well my keys worked. 	 I present data in scatter graphs and frequency charts I recognise patterns in results I recognise the effect of simple size on reliability. Review I draw valid conclusion from data about patterns and recognise limitations I recognise the significance of relationships between sets of data I talk about and explain cause and effect patterns using scientific knowledge and understanding I evaluate how well I looked for 	 I start to hotice what information and data is biased or base in opinions rather than facts I present my findings in suitable formats Review I draw valid conclusions from my research I talk about and explain my research using scientific knowledge and understanding I evaluate how well my research has answered my questions I recognise that some scientific questions may not have been 	 I record data appropriately and accurately I present data in line graphs I identify causal relationships Review I draw valid conclusions based on the data I recognise the significance of the results of comparative and fair tests I talk about and explain casual relationships using scientific knowledge and understanding I evaluate the effectiveness of my comparative and fair testing,
			patterns	answered definitively	recognising variables that were difficult to control