## Ursuline Academy Ilford

## Science (Year 9)

	Initial – a student who is still initial will be able to partially meet some of the	<b>Emerging</b> – a student whose understanding is still emerging will be able to:	<b>Developing</b> – a student whose understanding is developing will also be able to:	<b>Secure</b> – a student whose understanding is secure will also be able to:	Advanced – a student whose understanding is advanced will be able to do some of the	Mastered – a student who has mastered their understanding will be able to do all of the following
	following with support:				following:	consistently:
Diagrams or Symbols	<ul> <li>support:</li> <li>Add scientific labels to a diagram</li> <li>Recall and recognise symbols.</li> <li>Recognise a diagram of a compound to the formula.</li> <li>Recognise objects from diagrammatic representations.</li> <li>Recognise or recall the Symbol for something from a list</li> <li>Recognise a type of something from a diagrammatical representation of it.</li> <li>Recall how to draw a chemical or physical structure</li> </ul>		• Draw specific scientific diagrams given only a simple diagram and/or minimal information			
Real World or Scientific Uses	<ul> <li>Recognise a simple use of a substance or process</li> <li>Apply the knowledge of the property of a substance to its use.</li> <li>Recall a process or substance to where it could be used.</li> <li>Choose a substance over another when given criteria to judge for its use</li> </ul>		<ul> <li>Apply scientific understanding to a real-world use</li> <li>Evaluate the properties and how they are suitable for a given use.</li> <li>Recall substances properties and link with its use.</li> <li>Explain the reason underlying a process or real-life application of it</li> <li>Explain with reason why a substance is not used in real life with reference to its property.</li> </ul>			

		<ul> <li>Explain with reason why a</li> </ul>		
		substance is used in real life		
		with reference to its property.		
		<ul> <li>Suggest advantages and</li> </ul>		
		disadvantages comparing		
		two materials for a job		
Interpreting	• Find the missing information when	• Apply data on specific		• 8 Choose information from a set of
Data from a	given an equation, paragraph or	substances to calculate new		data, decide what calculation should
Table, Graph or	diagram	information.		be performed.
Diagram	• Find the correct explanation from an	<ul> <li>Choose information from a</li> </ul>		• 8 Choose readings from a graph you
Diagram	observation/data of a practical shown	diagram to calculate a		have plotted and use in a calculation.
	<ul> <li>Link results, information or data to</li> </ul>	scientific value.		<ul> <li>9 Perform several calculations on data</li> </ul>
	chemical or physical properties	• Find patterns in data or graph		you have chosen to which one best fits
		<ul> <li>Interpreting data using</li> </ul>		, the observation
		scientific knowledge,		
		processes or ideas		
Variables,	<ul> <li>Order or rearrange a method or</li> </ul>	• Sketch a graph based on a	• Explain how a change in an	•
Required	process into the correct order	change of independent	experiment can improve it	
Practicals and	<ul> <li>Suggest variables that need to be kept</li> </ul>	variable	• Explain with reasons for part	
Working	the same to be valid when given	• Describe a practical procedure	of a procedure in a method	
Sciontifically	information on a method and diagram	to find a value or solve a	should this be a 5?	
Scientifically	• Calculate a range from a set of results	problem	• Plot a graph accurately, draw a	
	<ul> <li>Link the measuring apparatus to its</li> </ul>	<ul> <li>Plotting points onto a pre-</li> </ul>	line of best fit, extend the line	
	resolution.	drawn graph and adding line	• Suggest a reason for a part of	
	<ul> <li>Recognise what type of error from a list</li> </ul>	of best fit	an experiment using	
	• Classify data as categoric or continuous	• Work out the type of variable	understanding of a scientific	
	<ul> <li>Classify the variables or data type and</li> </ul>	in a set of data	process	
	deciding what graph to plot	<ul> <li>Applying scientific</li> </ul>	<ul> <li>Plan a practical that would</li> </ul>	
	• Calculate a mean from a set of	understanding to a method to	lead to a valid outcome,	
	numbers (data), recognising anomalous	choose what could have	variables controlled or	
	results.	caused specific anomalous	measured	
	<ul> <li>Draw diagram of apparatus that shows</li> </ul>	result or change		
	a process labelling its parts	<ul> <li>Suggest advantages and</li> </ul>		
	Name specific apparatus from	disadvantages comparing two		
	information or diagram	different methods		
	• Plot a Bar Chart on a fine scale	<ul> <li>Suggest changes when given a</li> </ul>		
	<ul> <li>Read a value on a fine scale</li> </ul>	method to increase		
	<ul> <li>Suggest the independent dependent</li> </ul>	validity/accuracy		
	and control variables when given a			

Suggest how a method can be adapted to produce repeatable results • Suggest a better piece of apparatus to improve accuracy • Suggest specific risks, hazards and precautions that need to be taken in an investigation • Suggest specific apparatus to do a specific job• Suggest a word that fits a definition• Apply knowledge or understanding of a chemical reaction to observations• Suggest a better piece of apparatus suggest specific risks, hazards and precautions that need to be taken in an investigation • Suggest specific job• Suggest a word that fits a definition• Apply knowledge or understanding of a chemical reaction to observations • Apply scientific understanding to explain method • Choose a word that fits the definition • Describe a microstructure of something. • Describe why scientific ideas become accepted over time • Explain why a certain substance has a certain property • Link the scientific substance, process or concept to its definition or explain results or observation • Stepalin results or dostervation • Stepalin why Scientific understanding or properties to predict or explain nesults or observation • Stepalin how Side and though things differently. • Know the property from its• Mathematical property • Stepalin how sind though in situations • Stepalin how Scientific understanding or properties to predict the outcome • Recall hysical properties of apply in situations • Stepalin how the macro properties of something. • Link the chemical property from its• Apply scientific understanding or properties of and its interpretation. • Explain how the macro properties of and its interpretation. • Explain how the macro properties of apply in situations • Stepalin how the macro properties • Stepalin how the macr		valid mathed			
<ul> <li>Suggest how a method can be adapted to produce repeatable results</li> <li>Suggest a better piece of apparatus to improve accuracy</li> <li>Suggest how to improve accuracy</li> <li>Suggest specific risks, hazards and precautions that need to be taken in an investigation</li> <li>Suggest specific apparatus to do a specific job</li> <li>Science</li> <li>Recall the knowledge of property of an object.</li> <li>Choose a word that fits the definition</li> <li>Describe a microstructure of something.</li> <li>Describe why scientific ideas become accepted over time substance has a certain property</li> <li>Link the scientific ubstance, process or concept to its definition or effects</li> <li>Know the properts (afferenty).</li> <li>Know the properts (afferenty).</li> <li>Know the property from its</li> <li>Recall the missing properties of an its interpretation.</li> <li>Recall a scientific understanding of a chemical from understanding of a chemical or physical property of substance has a certain property</li> <li>Recall a scientific test and its results for a chemical or properties to predict or concept to its definition or effects</li> <li>Know the proper scientific name of something.</li> <li>Explain why Scientific has approved the scientific understanding of a process and a calculation</li> <li>Explain why Scientific and scientific understanding of a process and a calculation</li> <li>Explain why Scientific and scientific understanding of a process and a</li></ul>					
Suggest a better pice of apparatus to improve accuracySuggest a better pice of apparatus to improve accuracySuggest sheetific ces of apparatus to amethodSuggest sheetific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationApply knowledge or understanding of a chemical reaction to observations8 Apply data from your calculation to an observation/chemical or physical PropertyScience Knowledge, Ideas, Models• Recall the knowledge of property of a object.• Suggest a word that fits a definition• Apply knowledge or understanding of a chemical reaction to observations o specific ideas become accepted over time • Explain why scientific ideas become accepted over time • Explain why acertain substance has a concept to its definition or effects • Explain why scientific understanding of • Recall knowledge of • Consplete missing information from understanding of a • State a limitation of a model • State a limitation of a model • Explain why scientific understanding of • Recall knowledge of • Properties to predict or explain results or a chemical • Recall knowledge of • Describes why scientific understanding of • Recall knowledge of • State a limitation of a model • Explain why scientific and though things differently. • Know the proper scientific nore offects • Explain why scientific and though things differently. • Know the proper scientific nore • Recall physical properties of something. • Link the chemical property from its• Recall the missing properties • Recall the		• Suggest now a method can be adapted			
<ul> <li>Suggest a better piece of apparatus to improve accuracy</li> <li>Suggest how to improve accuracy in a method</li> <li>Suggest specific risks, hazards and precautions that need to be taken in an investigation</li> <li>Suggest specific apparatus to do a specific job</li> <li>Science</li> <li>Recall the knowledge of property of an object.</li> <li>Choose a word that fits the definition object.</li> <li>Describe a microstructure of something.</li> <li>Explain why scientific ideas become accertain property</li> <li>Explain why a certain substance has certain property</li> <li>Explain why a certain substance has certain property</li> <li>Explain why scientific outerstanding something.</li> <li>Explain why a certain substance has certain property</li> <li>Explain why Scientific outerstand the something.</li> <li>Explain why scientific to definition or explain results or observation properties to predict or explain results or observation properties to predict or explain results or observation from understanding of a process and a calculation from understanding of a process and a calculation</li> <li>Explain why Scientific name of explain results or observations to predict the outcome something.</li> <li>Explain why Scientists did and though things differently.</li> <li>Know the proper scientific name of something.</li> <li>Euchai the chemical property from its</li> <li>Recall the missing properties of common substances and apply in situations</li> <li>Recall the missing properties of the micro physical property depends on the micro physical property</li> </ul>		to produce repeatable results			
improve accuracySuggest how to improve accuracy in a methodSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions that need to be taken in an investigationSuggest specific risks, hazards and precautions to a specific risks, hazards and definitionApply knowledge or understanding of a chemical esplain phenomena.Stappin phenomena. esplain phenomena.Stappin risk to risk and risk		• Suggest a better piece of apparatus to			
<ul> <li>Suggest specific risks, hazards and precautions that need to be taken in an investigation</li> <li>Suggest specific apparatus to do a specific job</li> <li>Science</li> <li>Recall the knowledge of property of an object.</li> <li>Choose a word that fits the definition</li> <li>Describe a microstructure of something.</li> <li>Describe a microstructure of certain property</li> <li>Explain why scientific ideas become accertain substance has a certain property</li> <li>Explain why scientific substance, process or concept to its definition or sobstances and corperties of an organization something.</li> <li>Explain why scientific substance, process or concept to its definition or explain results or observations thing differently.</li> <li>Explain why Scientific name of something.</li> <li>Explain why Scientific name of something.</li> <li>Explain why Scientific name of something.</li> <li>Explain how the proper scientific name of something.</li> <li>Eink the chemical property from its</li> <li>Recall the missing properties of an apply in situations</li> <li>Recall the missing properties of physical properties of an physical properties of apply situations</li> <li>Explain how a model was changed, citing the evidence and its interpretation.</li> <li>Explain how the proper scientific name of something.</li> <li>Explain how the property from its</li> </ul>		improve accuracy			
methodmethodSuggest specific risks, hazards and precautions that need to be taken in an investigation		<ul> <li>Suggest how to improve accuracy in a</li> </ul>			
Suggest specific risks, hazards and precautions that need to be taken in an investigation • Suggest specific apparatus to do a specific jobSuggest specific apparatus to do a specific jobSuggest specific apparatus to do a specific job• Apply knowledge or understanding of a chemical reaction to observations• 8 Apply data from your calculation to an observation/chemical or physical PropertyScience Knowledge, Ideas, Models• Recall the knowledge of property of an object.• Suggest a word that fits a definition• Apply knowledge or understanding of a chemical 		method			
precautions that need to be taken in an investigationprecautions that need to be taken in an investigationPrecautions investigationPrecaution investigationPrecaution investigationPrecaution investigationPrecaution to be servation investigationPrecaution to be servation investigationPrecaution to be servation investigationPrecaution to investanding of a involved.Precaution in terms of involved.Precaution involved.Precaution involved.Precaution involved.Precaution involved.Precaution involved.Precaution involved.Precaution involved.Precaution involved.Precaution involved.Precau		<ul> <li>Suggest specific risks, hazards and</li> </ul>			
investigationSuggest specific apparatus to do a specific jobSuggest aword that fits a definitionApply knowledge or understanding of a chemical reaction to observations8 Apply data from your calculation to an observation/chemical or physical PropertyKnowledge, ldeas, Models• Recall the knowledge of propert of a object.• Suggest a word that fits a definition• Apply knowledge or understanding of a chemical reaction to observations• 8 Apply data from your calculation to an observation/chemical or physical PropertyIdeas, Models• Choose a word that fits the definition • Describe a microstructure of something.• Predicting properties of an of similar objects properties. • Recall a scientific test and its results for a chemical results for a chemical results for a chemical results for a chemical properties to predict or properties to predict or properties to predict or from understanding of a process and a calculation • Explain why a certain substance, process or concept to its definition or effects • Explain why Scientists did and though things differently.• Recall hnowledge of explain physical properties of an observation• 8 back up with an explanation• Explain why scientific name of something. • Link the chemical property from its• Recall the missing properties • Recall the missing properties • Recall the missing properties• Apply sical property depends on the micro physical properties• 8 back up with an explanation• Link the chemical property from its• Recall the missing properties • Recall the missing properties• Explain how the macro physical property depends on the micro physical properties• Explain how the mac		precautions that need to be taken in an			
Suggest specific apparatus to do a specific jobSuggest a word that fits jobSuggest a word that fits a definitionApply knowledge or understanding of a chemical reaction to observationsStandard PropertyKnowledge, ldeas, Models• Recall the knowledge of property of a object.• Suggest a word that fits a definition• Apply knowledge or understanding of a chemical reaction to observations• S Apply data from your calculation to an observation/chemical or physical PropertyIdeas, Models• Describe a microstructure of something.• Predicting properties of an unknown based on knowledge of similar objects properties.• Apply scientific understanding to explain phenomena.• S Explain an observation/chemical or physical Property• Describe why scientific ideas become accepted over time• Recall a scientific test and its properties to are chemical explain why a certain substance has a certain property• Recall knowledge of properties to predict or explain results or observation from understanding of a process and a calculation• 8 Justify an answer that you give and back up with an explanation• Explain why Scientific substance, process or concept to its definition or effects things differently.• Use Scientific understanding progerties to predict or explain results or observation, explain how a model was changed, citing the evidence and its interpretation, explain how the macro physical property depends on the micro physical property depends on physical property depends on physical property depends on physical property depends on physical property depends on the micro physical properties		investigation			
specific jobvecall the knowledge of property of an object.Suggest a word that fits a definitionApply knowledge or understanding of a chemical understanding of a chemical understanding of a chemical reaction to observations8 Apply data from your calculation to an observation/chemical or physical PropertyIdeas, Models•Choose a word that fits the definition •Describe a microstructure of something.•Predicting properties of an unknown based on knowledge of similar objects properties. explain accepted over time•Predicting properties of an unknown based on knowledge of similar objects properties. results for a chemical properties to predict or properties to predict or explain my a certain substance has a certain property•Recall a scientific tert results for a chemical properties to predict or explain the scientific substance, process or concept to its definition or effects things differently.•Recall knowledge of properties to predict the outcome to predict the outcome to predict the outcome•Complete missing information from understanding of a process and a calculation explain now a model was changed, citing the evidence and its interpretation.•8 Justify an answer that you give and back up with an explanation• Know the proper scientific name of something.•Recall physical properties ormino substances and apply in situations•Know the macro physical properties on physical properties•Know the macro physical properties• Link the chemical property from its•Recall the missing properties•Recall the missing properties•Know the macro physical properties• Link the chemical property from its•Recall the missing properties <th></th> <th><ul> <li>Suggest specific apparatus to do a</li> </ul></th> <th></th> <th></th> <th></th>		<ul> <li>Suggest specific apparatus to do a</li> </ul>			
ScienceRecall the knowledge of property of a object.Suggest a word that fits a definitionApply knowledge of understanding of a chemical reaction to observations8 Apply data from your calculation to an observation/chemical or physical PropertyIdeas, ModelsChoose a word that fits the definition observibe a microstructure of something.Predicting properties of an unknown based on knowledge of similar objects properties.Apply scientific understanding to explain phenomena.8 Explain an observation in terms of the process and property of substance involved.Poscribe why scientific ideas become accepted over timeRecall knowledge of properties to predict or explain neutrost or properties to predict or explain results for a chemical properties to predict or explain results or observationState a limitation of a model involved.8 Sutify an answer that you give and back up with an explanationIt ink the scientific substance, proper concept to its definition or effects things differently.Use Scientific understandi explain results or observation in prodict the outcome in properties to predict or explain how a model was things differently.State al interpretation.State al interpretation.Know the proper scientific name of something.Necall physical properties of and physical properties of and physical properties of and its interpretation.State interpretation.State interpretation.Know the proper scientific name of something.Necall physical properties of and phy is ituationsState interpretation.State interpretation.Know the proper scientific name of something.Necall physical properties of <br< th=""><th></th><th>specific job</th><th></th><th></th><th></th></br<>		specific job			
Knowledge, Ideas, Modelsobject.definitionunderstanding of a chemical reaction to observationsan observation/chemical or physical PropertyIdeas, Models•Choose a word that fits the definition •Describe a microstructure of something.•Predicting properties of an unknown based on knowledge of similar objects properties.•Apply scientific understanding to explain phenomena.•Apply scientific understanding to explain phenomena.•B Explain an observation/chemical or physical Property•Describe why scientific ideas become accepted over time•Recall a scientific test and its results for a chemical properties to predict or explain property•State a limitation of a model •Write a scientific definition from understanding of a explain ny a certain substance, process or concept to its definition or effects •Explain why Scientific substance, process or concept to its definition or effects •Explain why Scientific name of something.•Recall physical properties of explain results or observations •Use Scientific understanding to predict the outcome •Recall physical properties of apply in situations•Explain how a model was changed, citing the evidence and its interpretation.•Explain how the macro physical property depends on the micro physical properties•Explain how the macro physical property depends on the micro physical properties•Explain how the macro physical properties	Science	• Recall the knowledge of property of an	<ul> <li>Suggest a word that fits a</li> </ul>	<ul> <li>Apply knowledge or</li> </ul>	• 8 Apply data from your calculation to
Ideas, Models• Choose a word that fits the definition • Describe a microstructure of something.• Predicting properties of an unknown based on knowledge of similar objects properties.reaction to observations • Apply scientific understanding to explain phenomena.Property • 8 Explain an observation in terms of the process and property of substance involved.• Describe why scientific ideas become accepted over time • Explain why a certain substance has a certain property • Link the scientific substance, process or concept to its definition or effects • Explain why Scientists did and though things differently.• Recall howledge of properties to predict or explain results or observations to predict the outcome • Recall properties of common substances and apply in situations• Recall properties of properties of explain how a model was changed, citing the evidence and its interpretation.• Recall the missing properties• Link the chemical property from its• Recall the missing properties• Recall the missing properties• Explain how the macro physical property depends on the micro physical properties• Explain how the macro physical properties	Knowledge,	object.	definition	understanding of a chemical	an observation/chemical or physical
<ul> <li>Describe a microstructure of something.</li> <li>Describe why scientific ideas become accepted over time</li> <li>Explain why a certain substance has a certain property</li> <li>Link the scientific substance, process or concept to its definition or effects</li> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Manual and the chemical property from its</li> <li>Manual and the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Describe why scientific definition or effects</li> <li>Explain why Scientific name of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Describe why scientific name of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Describe why scientific name of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Describe why scientific name of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Describe a microstructure of something.</li> <li>Link the chemical property from its</li> <li>Desc</li></ul>	Ideas. Models	<ul> <li>Choose a word that fits the definition</li> </ul>	<ul> <li>Predicting properties of an</li> </ul>	reaction to observations	Property
something.of similar objects properties.to explain phenomena.the process and property of substance• Describe why scientific ideas become accepted over time• Recall a scientific test and its results for a chemical• State a limitation of a model• State a limitation of a model• Explain why a certain substance has a certain property• Recall knowledge of properties to predict or explain results or observations• Complete missing information from understanding of a process and a calculation• 8 Justify an answer that you give and back up with an explanation• Link the scientific substance, process or concept to its definition or effects things differently.• Recall physical properties of common substances and apply in situations• Explain how a model was changed, citing the evidence and its interpretation.• Explain how the macro physical property depends on the micro physical properties	,,	<ul> <li>Describe a microstructure of</li> </ul>	unknown based on knowledge	• Apply scientific understanding	<ul> <li>8 Explain an observation in terms of</li> </ul>
<ul> <li>Describe why scientific ideas become accepted over time</li> <li>Explain why a certain substance has a certain property</li> <li>Link the scientific substance, process or concept to its definition or effects</li> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Recall the missing properties</li> </ul>		something.	of similar objects properties.	to explain phenomena.	the process and property of substance
<ul> <li>accepted over time</li> <li>Explain why a certain substance has a certain property</li> <li>Link the scientific substance, process or concept to its definition or effects</li> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Certain property from its</li> <li>Certain property from its</li> <li>Recall knowledge of properties to predict or explain results or observations to predict the outcome</li> <li>Recall physical properties of something.</li> <li>Link the chemical property from its</li> <li>Certain property from its</li> <li>Complete missing information or effects</li> <li>Recall knowledge of properties of operations</li> <li>Recall physical properties of something.</li> <li>Link the chemical property from its</li> <li>Certain property from its</li> <li>Complete missing information or effects</li> <li>Recall knowledge of properties of operations</li> <li>Recall physical properties of something.</li> <li>Link the chemical property from its</li> </ul>		• Describe why scientific ideas become	<ul> <li>Recall a scientific test and its</li> </ul>	• State a limitation of a model	involved.
<ul> <li>Explain why a certain substance has a certain property</li> <li>Link the scientific substance, process or concept to its definition or effects</li> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Recall knowledge of properties to predict or explain results or observations</li> <li>Recall knowledge of properties to predict or explain results or observations</li> <li>Scientific understanding to predict the outcome</li> <li>Recall physical properties of something.</li> <li>Link the chemical property from its</li> <li>Recall the missing properties</li> <li>Recall the missing properties</li> <li>Recall the missing properties</li> </ul>		accepted over time	results for a chemical	Write a scientific definition	<ul> <li>8 Justify an answer that you give and</li> </ul>
certain propertyproperties to predict or explain results or observationsfrom understanding of a process and a calculation• Link the scientific substance, process or concept to its definition or effects things differently.• Use Scientific understanding to predict the outcome • Recall physical properties of common substances and apply in situations• Explain how a model was changed, citing the evidence and its interpretation.• Know the proper scientific name of something.• Recall physical properties of common substances and apply in situations• Explain how the macro physical property depends on the micro physical properties		• Explain why a certain substance has a	<ul> <li>Recall knowledge of</li> </ul>	• Complete missing information	back up with an explanation
<ul> <li>Link the scientific substance, process or concept to its definition or effects</li> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>explain results or observations explain results or observations of something.</li> <li>explain results or observations explain results or observations of process and a calculation</li> <li>Explain how a model was changed, citing the evidence and its interpretation.</li> <li>Explain how the macro physical property depends on the micro physical properties</li> </ul>		certain property	properties to predict or	from understanding of a	
<ul> <li>concept to its definition or effects</li> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Use Scientific understanding to predict the outcome</li> <li>Recall physical properties of common substances and apply in situations</li> <li>Recall the missing properties</li> <li>Recall the missing properties</li> <li>Explain how a model was changed, citing the evidence and its interpretation.</li> <li>Explain how the macro physical property depends on the micro physical properties</li> </ul>		• Link the scientific substance, process or	explain results or observations	process and a calculation	
<ul> <li>Explain why Scientists did and thought things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>to predict the outcome</li> <li>Recall physical properties of common substances and apply in situations</li> <li>Recall the missing properties</li> <li>Recall the missing properties</li> </ul>		concept to its definition or effects	• Use Scientific understanding	• Explain how a model was	
<ul> <li>things differently.</li> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Recall physical properties of common substances and apply in situations</li> <li>Recall the missing properties</li> <li>Recall the missing properties</li> </ul>		• Explain why Scientists did and thought	to predict the outcome	changed, citing the evidence	
<ul> <li>Know the proper scientific name of something.</li> <li>Link the chemical property from its</li> <li>Common substances and apply in situations</li> <li>Recall the missing properties</li> <li>Explain how the macro physical property depends on the micro physical properties</li> </ul>		things differently.	Recall physical properties of	and its interpretation.	
something.apply in situationsphysical property depends on• Link the chemical property from its• Recall the missing propertiesthe micro physical properties		• Know the proper scientific name of	common substances and	• Explain how the macro	
Link the chemical property from its     Recall the missing properties     the micro physical properties		something	apply in situations	physical property depends on	
- Link the chemical property non its		• Link the chemical property from its	Recall the missing properties	the micro physical properties	
microstructure discussion of an object given only one		microstructure	of an object given only one		
Recognise a scientific label placed on a piece of information.		Recognise a scientific label placed on a	piece of information.		
data graph		data granh	• Apply scientific knowledge to		
identify the correct structure			identify the correct structure		
formula or answer			formula or answer.		
• Apply scientific knowledge to			• Apply scientific knowledge to		
add labels to a scientific graph			add labels to a scientific graph		
or data.			or data.		

Science Processes- Recognising, Explaining, Understanding or Applying	<ul> <li>Recall the knowledge of a process and where to recognise it.</li> <li>Complete missing information to show a complete process.</li> <li>Describe what happens during a scientific process</li> <li>Prodict with researce a value based on</li> </ul>	<ul> <li>Apply scientific understanding to suggest an answer to a simple problem</li> <li>Apply scientific understanding to predict the new data or observations when something is changed</li> </ul>	<ul> <li>Apply knowledge or understanding of a chemical reaction to observations</li> <li>Complete missing information from understanding of a process and a calculation</li> <li>Evaluation an observation based</li> </ul>	<ul> <li>8 Apply data from your calculation to an observation/chemical or physical property</li> <li>8 Explain an observation in terms of the process and property of substance involved.</li> <li>8 Institution and property of substance</li> </ul>
	knowledge of a property	<ul> <li>Apply a substance's property to suggest one substances advantage or use over another.</li> <li>Explain the reason underlying a process or real-life application of it</li> <li>Describe a how a process works in a specific situation</li> <li>Add in missing information based on understanding of the science behind it</li> </ul>	on more than one scientific process. • Explain how the macro physical property depends on the micro physical properties	<ul> <li>back up with an explanation</li> <li>9 Perform several calculations on data you have chosen to which one best fits the observation</li> </ul>