	جيمس محدرسة فاوندرز DUBAI	Year	<sup>8</sup> High
		Subject	Science Performance Learning
			Learning
erm W	/eek Focus Induction and Investigation Skills	Summary	Learning Outcomes Summarise the key expectations in Science
	1	Expectations HPL in Science	Apply your knowledge to identify dangers in the lab
	Induction and Investigation Skills	Lab Safety Detergent Investigation	Construct a set of lab safety rules Use your knowledge to identify variables
	2	Detergent Analysis and Report	Chooce the correct titles for a scientific table
	Explore the strucutre and bonding	Self Assessment of Report and Feedback Covalent Bonding	Collect results from a scientific investigation Use your knowledge to explain why atoms bond
		Giant Covalent Structures	Outline the formation of a covalent bond
		Atoms into Ions	Create bonding diagrams to show covalent bonds
			Use your knowledge to list examples of giant covalent structures
	3		Outline the formation of a giant covalent structure Summarise the properties of giant covalent structures
			Use your knowledge to describe how ions are formed
			Create diagrams showing the electron arrangement of ions
	Explore the strucutre and bonding	Ionic Bonding	Predict the ion formed by different atoms Use your knowledge to describe the type of elements that form an ionic bond
		Metallic Bonding	Outline the formation of an ionic bond
		Applications of Bonding	Construct dot and cross diagrams to show ionic bonds
			Apply your knowledge to describe the arrangement of atoms in a metal
	4		Create a diagram to describe the formation of metallic bonds Predict the properties of metallic structures
			Use your knowledge to describe the structure and bonding carbon nanotubes Summarise the important uses of carbon nanotubes in medicine
			Analyse the properties of a metal to determine a suitable use
	Explore the strucutre and bonding	Structure and Bonding Retrieval Practise and Feedback	Evaluate your knowledge of the structure and bonding topic
	5 Investigation different chemical reactions	Signs of a Chemical Reaction	Apply your knowledge to determine if a scenario is a chemical reaction or a physical change
			Summarise the different signs of a chemical reaction Conduct an experiment to demonstrate signs of a chemical reaction
	Investigation different chemical reactions	Representing a Chemical Reaction Effect of Surface Area	Write the molecular formula for simple substances Construct simple word equations that represent a chemical reaction
		Effect of Temperature	Construct simple chemical equations that represent a chemical reaction
			Use your knowledge to describe the conditions required for a reaction to take place
	6		Summarise how changing surface area effects the rate of a chemical reaction
			Conduct an experiment to demonstrate the effect of surface area on reaction rate
			Apply your knowledge to describe the relationship between temperature and energy
			Summarise how changing temperature effects the rate of a chemical reaction Conduct an experiment to demonstrate the effect of temperature on reaction rate
	Investigation different chemical reactions	Reporting a Rate Investigation	Apply your knowledge to determine the variables for an invetsigation
		Effect of a Catalyst	Construct a table and/or graph to present your results Evaluate your results to write a valid conclusion supported by evidence
	7		Use your knowledge to define the term catalyst
			Summarise how adding a catalyst effects the rate of a chemical reaction
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й 1			Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction
	Investigation different chemical reactions	Chemical Reactions Retrieval Practise and Feedback	
Term		Chemical Reactions Retrieval Practise and Feedback The pH scale	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction Evaluate your knowledge of the chemical reactions topic
Term	8 Explore and compare acids and alkalis		Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction         Evaluate your knowledge of the chemical reactions topic         Use your knowledge to describe what is shown on the pH Scale         Summarise the different methods used for testing pH
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	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Explore and compare acids and alkalis         10       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalies Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Farming         Chemistry and Plastics         Analytical Chemistry	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction         Evaluate your knowledge of the chemical reactions topic         Use your knowledge to describe what is shown on the pH Scale         Summarise the different methods used for testing pH         Interpret results to predict the pH of a solution         Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral         Write the molecular formula for simple acids and alkalis         Calculate the RFM of simple acids and alkalis         Use your knowledge to define the term concentration         Connect the concentration of an acid to its pH         Calculate the concentration of a solution using n = c x v         Use your knowledge to state what is meant by neutralisation reaction         Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions         Write simple chemical equations for neutralisation reactions         Write simple chemical equations for neutralisation reactions         Evaluate separation techniques to determine the best method for collect salts from water         Evaluate separation techniques to discuss the process of oil forming         Summarise the process of combustion         Evaluate see of oil as a fuel         Use your knowledge to discuss the structure and bonding of ammonia         Summarise the process of making ammonia for use in fertilisers
	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Explore and compare acids and alkalis         10       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world         12       Investigate how Chemistry is used in the real world	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalise Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Plastics         Analytical Chemistry         Real World Chemistry Retrieval and Feedback	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction Evaluate your knowledge of the chemical reactions topic Use your knowledge to describe what is shown on the pH Scale Summarise the different methods used for testing pH Interpret results to predict the pH of a solution Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral Write the molecular formula for simple acids and alkalis Calculate the RFM of simple acids and alkalis Use your knowledge to define the term concentration Connect the concentration of an acid to its pH Calculate the concentration of a solution using n = c x v Use your knowledge to state what is meant by neutralisation reaction Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions Use your knowledge to the acids and alkalis topic Evaluate separation techniques to determine the best method for collect salts from water Evaluate your knowledge to describe the formation of biofuel Evaluate the use of oil as a fuel Use your knowledge to describe the formation of biofuel Evaluate the use of oil as a fuel Use your knowledge to discuss the structure and bonding of ammonia Summarise the process of animation for the formation of biofuel Evaluate the use of bioethanol and its impact on the environment and society Use your knowledge to define the term monomer and polymer Summarise the process of polymerisation and represent using an equation Debate the use of biodernation in the UAE and evaluate their use Use your knowledge to explain how paper chromatography works Conduct paper chromatography to compare and contrast different inks Evaluate your knowledge to explain how paper chromatography works Conduct paper chromatography to compare and contrast different inks Evaluate your knowledge to define the term monomer and polymer Summarise the process of polymerisation and represent using an equation Debate the use of biodegradable plastics
	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Explore and compare acids and alkalis         10       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalies Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Farming         Chemistry and Plastics         Analytical Chemistry	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction Evaluate your knowledge of the chemical reactions topic Use your knowledge to describe what is shown on the pH Scale Summarise the different methods used for testing pH Interpret results to predict the pH of a solution Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral Write the molecular formula for simple acids and alkalis Calculate the RFM of simple acids and alkalis Use your knowledge to define the term concentration Connect the concentration of an acid to its pH Calculate the concentration of a solution using n = c x v Use your knowledge to state what is meant by neutralisation reaction Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions Use your knowledge to the acids and alkalis topic Evaluate separation techniques to determine the best method for collect salts from water Evaluate your knowledge to describe the formation of biofuel Evaluate the use of oil as a fuel Use your knowledge to describe the formation of biofuel Evaluate the use of oil as a fuel Use your knowledge to discuss the structure and bonding of ammonia Summarise the process of animation for the formation of biofuel Evaluate the use of bioethanol and its impact on the environment and society Use your knowledge to define the term monomer and polymer Summarise the process of polymerisation and represent using an equation Debate the use of biodernation in the UAE and evaluate their use Use your knowledge to explain how paper chromatography works Conduct paper chromatography to compare and contrast different inks Evaluate your knowledge to explain how paper chromatography works Conduct paper chromatography to compare and contrast different inks Evaluate your knowledge to define the term monomer and polymer Summarise the process of polymerisation and represent using an equation Debate the use of biodegradable plastics
	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Investigate now compare acids and alkalis         11       Investigate now chemistry is used in the real world         12       Investigate now chemistry is used in the real world         13       Revise key aspects of the Chemistry Unit	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalise Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Plastics         Analytical Chemistry         Real World Chemistry Retrieval and Feedback	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction Evaluate your knowledge of the chemical reactions topic Use your knowledge to describe what is shown on the pH Scale Summarise the different methods used for testing pH Interpret results to predict the pH of a solution Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral Write the molecular formula for simple acids and alkalis Calculate the RFM of simple acids and alkalis Calculate the RFM of simple acids and alkalis Calculate the concentration of an acid to its pH Calculate the concentration of a solution using n = c x v Use your knowledge to state what is meant by neutralisation reaction Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions Use your knowledge to name the salt produced in different neutralisation reactions Write simple chemical equations for neutralisation reactions Evaluate separation techniques to determine the best method for collect salts from water Evaluate your knowledge to discuss the process of oil forming Summarise the process of combustion Evaluate the use of oils as a fuel Use your knowledge to discuss the process of oil forming Summarise the process of making ammonia for use in fertilisers Lustify why fertilisers and an impact on the eVALate evaluate their use Use your knowledge to discuss the structure and bonding of ammonia Summarise the process of polymerisation and represent using an equation Debate the use of biodefrand and non-biodegradable plastics Use your knowledge to explain how paper chromatography works Conduct paper chromatography to compare and polymer Summarise the process of the Real World Chemistry topic The success criteria explored for the Chemistry term will be reviewed
	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Explore and compare acids and alkalis         10       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world         12       Revise key aspects of the Chemistry Unit	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalise Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Plastics         Analytical Chemistry         Real World Chemistry Retrieval and Feedback         Real World Chemistry Retrieval and Feedback         Real World Chemistry Retrieval and Feedback	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction         Evaluate your knowledge of the chemical reactions topic         Use your knowledge to describe what is shown on the pH Scale         Summarise the different methods used for testing pH         Interpret results to predict the pH of a solution         Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral         Write the molecular formula for simple acids and alkalis         Calculate the RFM of simple acids and alkalis         Use your knowledge to define the term concentration         Connect the concentration of an acid to its pH         Calculate the concentration of a solution using n = c x v         Use your knowledge to state what is meant by neutralisation reaction         Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions         Use your knowledge to name the sail produced in different neutralisation reactions         Write simple chemical equations for neutralisation reactions         Evaluate separation techniques to determine the best method for collect salts from water         Evaluate separation techniques to determine the best method for collect salts from water         Evaluate the use of oil as a fuel         Use your knowledge to describe the formation of bioftuel         Evaluate the use of oil as a fuel         Use your knowledge to discuss th
	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Investigate now compare acids and alkalis         11       Investigate how Chemistry is used in the real world         11       Investigate how Chemistry is used in the real world         12       Revise key aspects of the Chemistry Unit         13       Chemistry Synoptic and Feedback Week	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalise Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Plastics         Analytical Chemistry         Real World Chemistry Retrieval and Feedback         Real World Chemistry Retrieval and Feedback         Revision will be created to cover different aspects of the Chemistry content to ensure learners have had the opportunity for retrieval practice. Teachers will create revision for their class based on their areas of development identified from the end of topic retrieval questions.         Chemistry Nonptic	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction Evaluate your knowledge of the chemical reactions topic Use your knowledge to describe what is shown on the pH Scale Summarise the different methods used for testing pH Interpret results to predict the pH of a solution Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral Write the molecular formula for simple acids and alkalis Calculate the RFM of simple acids and alkalis Calculate the RFM of simple acids and alkalis Calculate the concentration of an acid to its pH Calculate the concentration of an acid to its pH Calculate the concentration of a acid to its pH Use your knowledge to define the term concentration Conduct an experiment which would demonstrate a neutralisation reaction Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions Use your knowledge to discuss for neutralisation reactions Evaluate separation techniques to determine the best method for collect salts from water Evaluate separation techniques to determine the best method for collect salts from water Evaluate the use of oil as a fuel Use your knowledge to discuss the process of oil forming Summarise the process of combustion Evaluate the use of oil as a fuel Use your knowledge to discuss the structure and bonding of ammonia Summarise the process of making ammonia for use in fertilisers Justify why fertilisers are an important in the UAE and evaluate their use Use your knowledge to explain how paper chromatography works Conduct paper chromatography to separate coloured substances Interpret results of paper chromatography to compare and contrast different inks Evaluate your knowledge of the Real World Chemistry toppic The success criteria explored for the Chemistry term will be assessed Evaluate your knowledge of the Chemistry term will be assessed Evaluate your knowledge of the Chemistry term will be assessed
	8       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         9       Explore and compare acids and alkalis         10       Investigate now compare acids and alkalis         11       Investigate now chemistry is used in the real world         12       Investigate now chemistry is used in the real world         13       Revise key aspects of the Chemistry Unit	The pH scale         Identifying Acids and Alkalies         Concentration         Neutralisation         Products of Neutralisation         Acids and Alkalise Retrieval Practise and Feedback         Chemistry for Fuels         Renewable Energy         Chemistry and Plastics         Analytical Chemistry         Real World Chemistry Retrieval and Feedback         Real World Chemistry Retrieval and Feedback         Revision will be created to cover different aspects of the Chemistry content to ensure learners have had the opportunity for retrieval practice. Teachers will create revision for their class based on their areas of development identified from the end of topic retrieval questions.         Chemistry Nonptic	Compare the advantages of using a catalyst to changing other factors to increase the rate of a reaction Evaluate your knowledge of the chemical reactions topic Use your knowledge to describe what is shown on the pH Scale Summarise the different methods used for testing pH Interpret results to predict the pH of a solution Use your knowledge to describe the ions responsible for making a solution acid, alkali or neutral Witte the molecular formula for simple acids and alkalis Calculate the RFM of simple acids and alkalis Use your knowledge to define the term concentration Connect the concentration of an acid to its pH Calculate the concentration of a acid to its pH Calculate the concentration of a acid to its pH Calculate the concentration of a solution using n = c x v Use your knowledge to state what is meant by neutralisation reaction Predict if everyday substances are acid or alkali and give examples of real life neutralisation reactions Write simple chemical equations for neutralisation reactions Evaluate separation techniques to determine the best method for collect salts from water Evaluate your knowledge to discuss the process of oil forming Summarise the process of combustion Evaluate the use of oil as a fuel Use your knowledge to discuss the structure and bonding of ammonia Summarise the process of combustion Evaluate the use of bioethaniol and its impact on the environment and society Use your knowledge to describe the formation of biofuel Evaluate the use of bioethaniol and its impact on the environment and society Use your knowledge to define the term monomer and polymer Summarise the process of polymerisation and evaluate their use Use your knowledge to depart in the UAE and evaluate their use Use your knowledge to explain how paper chromatography works Conduct paper chromatography to compare and contrast different inks Evaluate your knowledge of the Real World Chemistry term will be assessed