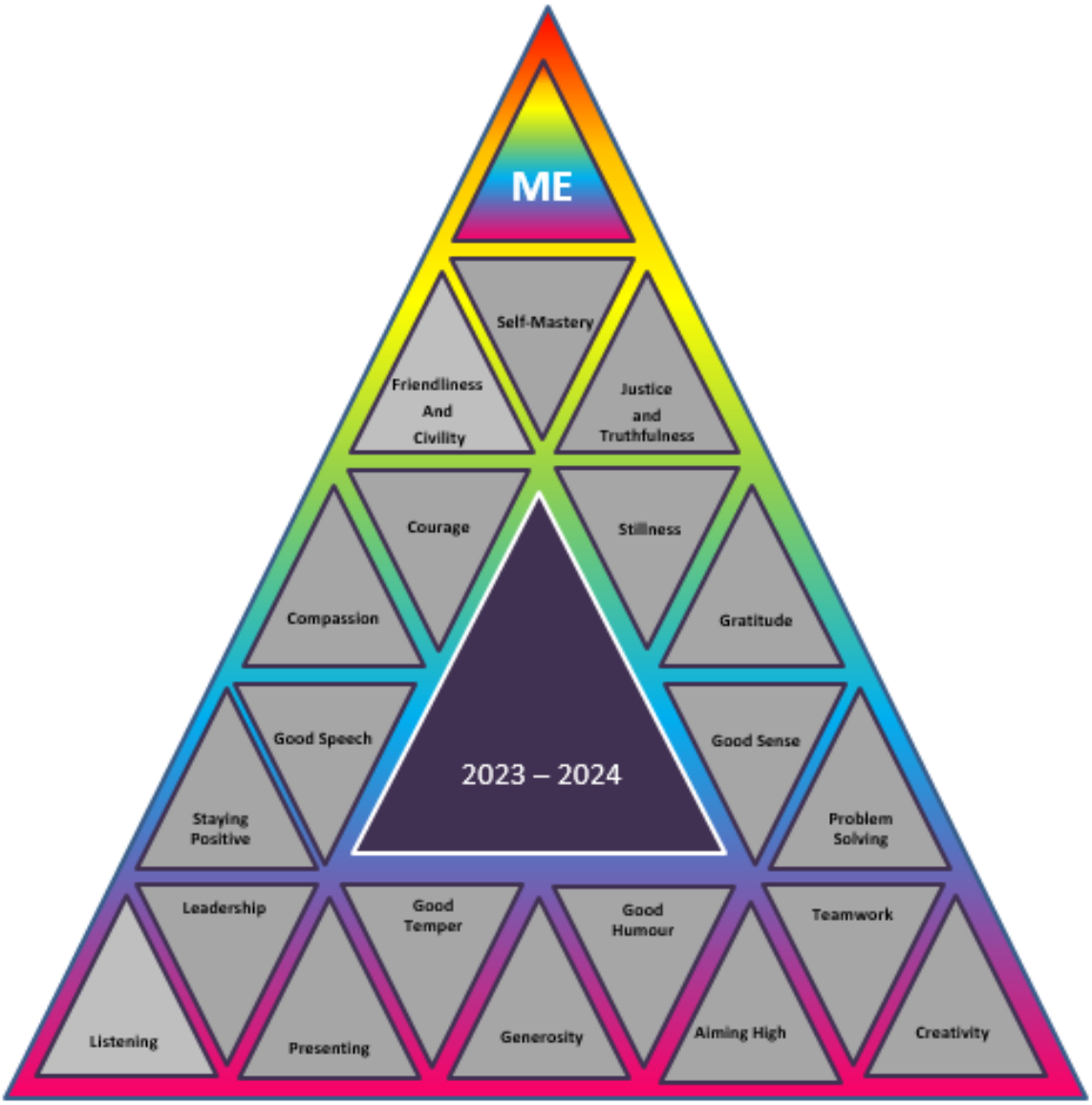
Year 11 Homework Booklet



I can statements for GCSE courses

2023-2024

Listening; Leadership; Presenting; Aiming High; Staying Positive; Problem Solving; Creativity; Teamwork

English 'I Can Statements'

Date	'I Can' statements – Disciplinary Knowledge	Yes	No
11.09.23	Read, understand and respond to texts by maintaining a critical style and develop an informed personal response. I can use textual references, including quotations, to support and illustrate interpretations.		
18.09.2	Analyse the language, form and structure used by a writer to create meanings and effects, using relevant subject terminology where appropriate.		
25.09.23	Show understanding of the relationships between texts and the contexts in which they were written.		
02.10.23	Identify and interpret explicit and implicit information and ideas and select and synthesise evidence from different texts		
09.10.23	Explain, comment on and analyse how writers use language and structure to achieve effects and influence readers, using relevant subject terminology to support their views.		
16.10.23	Compare writers' ideas and perspectives, as well as how these are conveyed, across two or more texts		
30.10.23	Evaluate texts critically and support this with appropriate textual references		
06.11.23	Communicate clearly, effectively and imaginatively, selecting and adapting tone, style and register for different forms, purposes and audiences. Organise information and ideas, using structural and grammatical features to support coherence and cohesion of texts		
13.11.23	Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation.		
Date	**'I Can' statements – Substantive Knowledge**	**Yes**	**No**
	Macbeth		
20.11.23	Read, understand and respond to texts using appropriate quotations and maintaining my own critical style.		
27.11.23	Analyse the language, rhyme, rhythm and form used by a writer to create meanings and effects, using relevant subject terminology and connotations.		
04.12.23	Show understanding of the Jacobean England and the message that Shakespeare was trying to convey.		
	Creative Writing		
11.12.23	Explain how the structure of a gothic text can influence its meaning.		
18.12.23	Explain 2 characters in 19th century gothic texts		
08.01.24	Write my own gothic villain using literary techniques and description.		
15.01.24	Compare different writers' ideas, as well as how these are conveyed.		
	Anthology Poetry and Unseen Poetry		
22.01.24	Write imaginatively using show me sentences to create detailed worlds		
04.03.24	Plan my ideas to structure my work effectively; I can identify strengths and weakness in my work		
11.03.24	Use varying vocabulary (spelled correctly) and correctly used sentence types in my writing.		
18.03.24	Add context (social, historical, political) in to my analysis to explain the world around when the book was written and draw comparisons to my own life.		
08.04.24	Explain in detail the more challenging language techniques a writer uses and explain the effect they have on the reader.		
15.04.24	Evaluate the exam technique needed for success in the GCSE anthology		
22.04.24	Explain metaphor, simile and other literary techniques used in poetry		
29.04.24	Understand the key analysis points for the poems in the anthology		
06.05.24	Explain how rhythm and rhyme have been employed in selected poems and its effect		

English 'I Can Statements'

Date	'I Can' statements – Disciplinary Knowledge	Yes	No
13.05.24	Understand what I need to do for the unseen poetry section in the exam		
20.05.24	Explain what went well from my AP3 assessment and how I can improve even more for the real exam papers		

French/Spanish 'I Can' Statements

Date	'I Can' statements	Yes	No
	Topic Name: Travel and Tourism		
11.09.23	…discuss holiday activities and weather.		
	…revise the present tense of regular verbs.		
	…use verbs of opinion to refer to different people.		
18.09.23	…use the preterite tense.		
	…write a longer text.		
	…book accommodation and deal with problems.		
25.09.23	…use three tenses together.		
	…identify positive and negative opinions.		
	Topic Name: School		
02.10.23	…give opinions about school subjects.		
	…compare subjects and teachers.		
	…describe the school uniform and the school day.		
09.10.23	…use negatives.		
	…use phrases followed by the infinitive.		
	…talk about plans for a school exchange.		
16.10.23	…talk about activities and achievements.		
	…understand object pronouns.		
	Topic Name: Friends and Family		
30.10.23	…talk about socialising and family.		
	…describe people.		
	…talk about social networks.		
06.11.23	…extend responses by referring to others.		
	…make arrangements.		
	…talk about reading preferences.		
13.11.23	…use a range of connectives.		
	…use *etre* and *avoir*.		
	Topic Name: Hobbies		
20.11.23	…talk about free time activities.		
	…use stem-changing verbs.		
27.11.23	…talk about TV programmes and films.		
	…talk about what you usually do.		
06.12.23	…talk about sports.		
	…listen for different tenses.		
11.12.23	…use the perfect tense.		
	…talk about who inspires you.		
	Topic Name: Cities		
01.01.24	…talk about the main attractions in your local area		
08.01.24	...talk about the places in a town or city.		
	...ask for and understand directions.		
15.01.24	...describe the features of a region.		
	...use the future tense.		
	...use demonstrative adjectives.		

French/Spanish 'I Can' Statements

Date	'I Can' statements	Yes	No
22.01.24	...talk about problems in a town.		
	...describe a visit in the past.		
	Topic Name: Customs		
29.01.24	...describe mealtimes.		
	...talk about illnesses and injuries.		
	...use quantity expressions.		
05.02.24	...compare different festivals.		
	...order in a restaurant.		
	...use *etre* to describe a temporary state.		
19.02.24	...talk about a music festival.		
	...saying "before"/"after" doing something.		
	Topic Name: Jobs and Careers		
26.02.24	...talk about different jobs.		
	...use words with more than one meaning.		
	...talk about work experience.		
06.03.24	...use the preterite and imperfect together.		
	...talk about languages and travel.		
	...apply for a summer job.		
04.03.24	…write a formal letter.		
	...use different ways to express future plans.		
	Topic Name: Global Issues		
11.03.24	...describe types of houses.		
	...talk about the environment.		
18.03.24	...talk about healthy eating.		
	...use the superlative.		
08.04.24	...comparing old and new health habits		
15.04.24	…talking about charities		
22.04.24	…discuss inequality		
29.04.24	…discuss poverty		
06.05.24	…discuss homelessness		
13.05.24	…talk about solutions for social issues		
20.05.24	…use the imperative		
20.05.24	…use the conditional tense		

Science 'I Can' Statements

Date	'I Can' statements	Yes	No
11.09.23	**Biology:** State the organelles in plant and animal cells and those only in plant cells and explain the structure of organelles is related to its function		
	Chemistry: Define the terms element, compound and mixture and name compounds of elements from given formulae or symbol equations		
	Physics: describe ways in which energy can be stored and transferred.		
18.09.23	**Biology:** describe how microscopy techniques have developed over time and recall and apply the magnification equation		
	Chemistry: Write word equations for reactions and write formulae and balanced chemical equations		
	Physics: State the law of conservation of energy. Describe energy changes in a closed system		
25.09.23	**Biology:** Describe the structure of bacterial cells and compare eukaryotic and prokaryotic cells		
	Chemistry: Explain describe how to obtain a pure dry sample of crystals of a salt		
	Physics: Describe how work and energy are related. Calculate the work done by a force		
02.10.23	**Biology:** Describe and explain the structure and roles of specialised cells		
	Chemistry: Explain how distillation and chromatography work		
	Physics: Describe gravitational and potential energy and apply the equations for GPE and KE to calculate energy changes		
09.10.23	**Biology:** Describe what happens during osmosis and diffusion		
	Chemistry: Describe models of the atom over time and explain the evidence that Rutherford published		
	Physics: Describe what is meant by the terms useful and wasted energy and what happens to the wasted energy. Calculate the efficiency of energy transfers.		
16.10.23	**Biology:** describe what happens in active transport and where active transport occurs		
	Chemistry: Recall the mass and charges of subatomic particles. Calculate the number of each subatomic particle in an atom. Calculate the RFM of a compound		
	Physics: Describe energy transfers in household electrical appliances		
30.10.23	**Biology:** Describe the stages of the cell cycle		
	Chemistry: Describe how elements are arranged in the historic and modern periodic table		
	Physics: Calculate the efficiency of an appliance in terms of power and the power wasted by an appliance		
06.11.23	**Biology:** Describe what a stem cell is and give examples in plants and animals. Explain the steps in therapeutic cloning and the advantages and disadvantages of this technique		
	Chemistry: Describe, explain and predict properties of group 1 and 7 elements		
	Physics: Describe how to determine SHC by experimentation. Apply the heat capacity equation on the physics equation sheet to calculate temperature change and change in thermal energy.		
13.11.23	**Biology:** Define cell, tissue, organ and organ system and recall organs in the digestive system		
	Chemistry: Explain the properties of ionic compounds and refer to ionic bonding		
	Physics: Calculate the changes in energy involved when a system is changed by: • Heating • Word done by forces • Work done when current flows		

Science 'I Can' Statements

Date	'I Can' statements	Yes	No
20.11.23	**Biology:** Describe the roles of the organs in the digestive system and explain how to test for foods for carbohydrates, fats and proteins		
	Chemistry: Explain the properties of covalent compounds with reference to covalent bonding, including construction of dot and cross diagrams		
	Physics: Describe how our homes are heated and how you can reduce the rate of energy transfer from your home including the use of cavity wall insulation		
27.11.23	**Biology:** Recall where digestive enzymes are made and describe the lock and key model of enzyme function		
	Chemistry: Describe and explain the properties of allotropes of carbon including fullerenes and graphene		
	Physics: Describe how energy demands are met and the fuels that are used to generate electricity		
04.12.23	**Biology:** Describe how to investigate how pH affects amylase		
	Chemistry: Describe the properties of metals with reference to metallic bonding		
	Physics: Describe the use of renewable resources for electricity generation		
11.12.23	**Biology: E**xplain how factors can affect enzymes		
	Chemistry: Interpret balanced symbol equations		
	Physics: Describe the environmental impact of energy resources		
09.01.24	**Biology:** Identify the parts of the blood and explain why it is a tissue		
	Chemistry: Calculate relative formula masses of substances using the idea of conservation. Calculate means, ranges and uncertainty.		
	Physics: Recall the symbols for circuit components, Use the V=IR equation, Describe how to investigate the effect of length of wire on resistance		
15.01.24	**Biology:** Describe the gross structure of the heart and the double circulatory system		
	Chemistry: Interpret balanced symbol equations		
	Physics: Describe how to investigate resistors in series and parallel, Describe the pattern of current and p.d. in an ohmic conductor, filament lamp and diode		
22.01.24	**Biology:** Describe and evaluate treatments for coronary heart disease		
	Chemistry: Calculate masses in an equation using the number of moles and balanced symbol equations		
	Physics: Describe patterns of PD, currant and resistance in series and parallel		
29.01.24	**Biology:** Describe the structures and adaptations of the breathing system		
	Chemistry: Describe what concentration is. Calculate using the concentration = mass / volume equation		
	Physics: Recall the frequency and p.d. of mains supply in the UK, Explain the difference between direct and alternating p.d., Describe the roles of wires in a three-core cable		
05.02.24	**Biology:** Describe the structure of a leaf and explain how the structure of plant tissues are related to their job.		
	Chemistry: Explain what happens in oxidation and reduction. Describe reactions of metals with water and acid and relate these reactivity to the tendency of the metal to form its positive ions. Deduce an order of reactivity using practical results.		
	Physics: Describe the National Grid, including the role of transformers and explain why it is an efficient way to transfer energy		

Science 'I Can' Statements

Date	'I Can' statements	Yes	No
19.02.24	**Biology:** Describe what happens in transpiration and the factors that affect its rate		
	Chemistry: Describe how metals can be extracted using the blast furnace and electrolysis		
	Physics: Explain changes of state as physical changes, including how heating changes internal energy		
26.02.24	**Biology:** Describe what happens in translocation		
	Chemistry: Describe oxidation and reduction in terms of electrons. Write ionic half equations for displacement reactions. Identify in a given reaction, symbol equation or half equation which species are oxidised and which are reduced		
	Physics: Define latent heat and interpret heating and cooling graphs, apply the specific latent heat equation		
04.03.24	**Biology:** Recall the symptoms and causes of a range of plant and animal viruses including measles, HIV and TMV		
	Chemistry: Recall the products of the reaction between an acid and a metal, deduce the names and formulae of salts		
	Physics: Describe what gas pressure is, Explain how gas particle motion relates to temp and pressure, Calculate using the pressure equation		
11.03.24	**Biology:** Recall the symptoms and causes and prevention methods for salmonella and gonorrhoea		
	Chemistry: Describe what happens in neutralisation reactions and describe how to make pure, dry crystals of a salt formed in these reactions		
	Physics: Calculate the density of a material, Explain the density of materials using the particle model, Describe techniques for determining the density of materials		
18.03.24	**Biology:** Describe non-specific and specific body defences		
	Chemistry: Describe the difference between strong and weak acids. Describe the pH scale and the numerical link between pH and H+ concentration		
	Physics:		
25.03.24	**Biology:** Explain how antibodies work		
	Chemistry: Describe the process of electrolysis, including the products formed at the anode and cathode and the role of electrolysis in the extraction of metals		
	Physics: Describe the arrangement of subatomic particles in an atom, describe how electron arrangements might change, describe what an isotope is		
15.04.24	**Biology:** Explain what a vaccine is, how it works and evaluate the use of vaccines in the prevention of disease		
	Chemistry: Recall what conservation of energy means. Describe what happens in an endothermic reaction and exothermic reaction in terms of energy. Recall examples of endo and exothermic reactions		
	Physics: Describe models of the atom over time, explain the results of Rutherford's experiments		
22.04.24	**Biology:** Describe what antibiotics and painkillers are and the problem of antibiotic resistance		
	Chemistry: Describe how to measure temperature changes in a reaction and the variables that can affect temperature change. Draw and label reaction profiles for endo and exothermic reactions to include labelling activation energy.		
	Physics: Describe the process of radioactive decay including how it is measured, describe the types of nuclear radiation		
29.05.24	**Biology:** Recall where drugs traditionally come from and describe the stages of drug development		
	Chemistry: Draw tangents to curves and use them to calculate the rate of a reaction		
	Physics: Evaluate the best sources of radiation to use in a situation,		

Science 'I Can' Statements

Date	'I Can' statements	Yes	No
06.05.24	**Biology:** Describe what cancer is and recall its risk factors. Explain the difference between benign and malignant tumours		
	Chemistry: Describe factors that affect the rate of a reaction		
	Physics: Explain changes in atomic number and mass during decay and interpret nuclear equations		
13.05.24	**Biology:** Describe the effects of smoking on health		
	Chemistry: Describe collision theory and use it to predict how rates of reaction can change		
	Physics: Recall that radioactive decay is random, Describe what half-life is, Calculate half-life and net decline in activity, Compare the hazards of contamination and irradiation		
20.05.24	**Biology:** Describe the effects of diet and exercise on health		
	Chemistry: Describe what a catalyst is and explain how catalysts increase rates of reaction		
	Physics: Describe what a scalar and vector quantities are, Describe the forces involved in interactions between objects		
03.06.24	**Biology:** Describe the effects of alcohol and other carcinogens on health		
	Chemistry: Interpret reaction profiles showing catalysts		
	Physics: Calculate the weight of an object, Explain the concept of 'centre of mass' and calculate the resultant forces acting on an object		
10.06.24	**Biology:** Recall the equation for photosynthesis and describe what happens during photosynthesis		
	Chemistry: Describe what a reversible reaction is and what happens at equilibrium		
	Physics: Use vector diagrams to determine a resultant force, Calculate the work done by a force		
17.06.24	**Biology:** Explain why photosynthesis is an endothermic reaction and describe the factors that affect the rate of photosynthesis		
	Chemistry: Explain what Le Chatelier's principle is and use it to predict the effect of changing concentration, temperature and pressure on equilibrium		
	Physics:		

Triple Science 'I Can' Statements

Date	'I Can' statements	Yes	No
	Biology		
11.09.23	Describe how to grow an uncontaminated culture of bacteria in the lab		
	Describe how uncontaminated cultures are used		
	State why bacteria are cultured at lower temperatures in schools than in industry		
	State that bacteria can divide by binary fission every 20 minutes if they have the right conditions		
	Calculate the number of bacteria in a population		
	Describe the effect of disinfectants and antibiotics on bacterial growth		
25.09.23	Describe the variety of plant pathogens		
	Explain how mineral deficiencies can cause non-communicable diseases in plants		
	Explain how to detect plant diseases		
	Explain that plants have evolved a variety of mechanisms to defend themselves against pathogens and herbivores		
09.10.23	Describe how monoclonal antibodies are produced		
	Explain how monoclonal antibodies are used		
	Describe the advantages and disadvantages of using monoclonal antibodies		
	Describe and explain the properties of the transition elements		
	Compare the transition elements with the alkali metals		
	Chemistry		
16.10.23	State what is meant by the yield of a chemical reaction		
	Describe the factors that can affect the yield of a reaction		
30.10.23	Calculate theoretical yield of a reaction		
	Calculate percentage yield of a reaction		
	Calculate the atom economy of a reaction to form a desired product from the balanced equation		
	Explain why atom economy is important in industrial processes		
	Describe how to accurately measure the amount of acid and alkali that react together completely		
	Explain how to determine when a reaction is complete		
06.11.23	Calculate the number of moles or the mass of a solute in a given volume of a solution of known concentration		
	Calculate the amount of acid or alkali needed in a neutralisation reaction		
	Calculate an unknown concentration from reacting volumes of two solutions where one concentration is known		
	Calculate the volume of a gas at room temperature and pressure from its mass and relative formula mass		
	Calculate volumes of gaseous reactants and products from a balanced equation and a given volume of a gaseous reactant or product		
	Physics		
13.11.23	Describe what infrared radiation is		
	State how infrared radiation depends on the temperature of an object		

Triple Science 'I Can' Statements

Date	'I Can' statements	Yes	No
13.11.23	Explain what is meant by black body radiation		
	Explain what happens to the temperature of an object if it absorbs more radiation than it emits		
20.11.23	Explain how the temperature of the earth is affected by the balance of absorbed and emitted radiation		
	State what happens when insulating materials are rubbed together		
	Describe what is transferred when objects become charged		
27.11.23	Describe what happens when charges are brought together		
	State that the force between charged objects is a non-contact force		
	Describe how pressure (or volume) changes affect the volume (or pressure) of the gas		
	Explain why the pressure of a gas changes when its volume is changed at constant pressure		
	Use the equation pV=constant		
	Explain why the temperature of a gas increases when it is compressed quickly enough		
	Biology		
04.12.23	Recall what the main areas of the brain do		
	Explain how scientists find out about the structure and functions of the brain		
	Describe the gross structure of the human eye and explain how the structures are related to their functions		
	Explain how the eye focuses light		
	Explain how the eye focuses on near and distant objects		
	Explain what happens in short sightedness and long sightedness and how these problems can be solved		
11.12.23	Describe how plants respond to light and gravity		
	Explain the importance of auxin in plant responses		
	Evaluate the use of plant hormones in agriculture and horticulture		
	Describe how the body monitors its temperature		
	Explain how the body maintains a constant core temperature regardless of external conditions		
	Explain how the body gets rid of the waste products from cells		
18.12.23	State why the kidneys are important and how they work		
	State the importance of the hormone ADH in water balance		
	State that dialysis can be used to carry out the function of the damaged kidneys		
	Evaluate the use of dialysis		
	Explain what is involved in a kidney transplant and how the problems of rejection can be solved		
	Evaluate the use of dialysis		
	Explain what is involved in a kidney transplant and how the problems of rejection can be solved		

Triple Science 'I Can' Statements

Date	'I Can' statements	Yes	No
	Chemistry		
08.01.24	Interpret data on chemical cells in terms of the relative reactivity of different metals		
	Evaluate the use of chemical cells including hydrogen cells		
	Plan an investigation into the voltage produced by simple cells using different metals		
	Write half equations for the electrodes in the hydrogen fuel cell		
	Name the alkenes ethene, propene, butene and pentene		
	Describe how alkenes react with oxygen in the air		
	Draw displayed formulae of the first four members of the alkenes and the products of their addition reactions with hydrogen, water and the halogens		
	State the name and formulae of the first 4 members of the alcohols and carboxylic acids as well as the ester ethyl ethanoate and to represent their structures using displayed formulae		
15.01.24	Write balanced chemical equations for the combustion of alcohols		
	The products of the reaction of alcohols with sodium and when they are oxidised		
	State some uses of alcohols		
	Recognise carboxylic acids from their properties		
	Explain why carboxylic acids are described as weak acids		
	Explain how to make esters		
	Recognise addition polymers and monomers from displayed formulae		
22.01.24	Draw diagrams to represent the formation of a polymer from a given monomer		
	Relate repeating units of a polymer to its monomer		
	Describe condensation polymerisation including the functional groups in the monomers and repeating units in the polymers		
	Explain how polyesters are formed		
	Explain how polymers of sugars are formed with reference to starch and cellulose		
	Explain how amino acids react together to form proteins by condensation polymerisation		
	Describe the basic structure of nucleotides and the structure of DNA		
	Physics		
05.02.24	State which radionucleotides are used in medicine and how their properties relate to the job that they do		
	State the type of radiation used for medical imaging		
	Explain how radioactivity is used to destroy cancer cells		
	Describe what nuclear fission is and the difference between spontaneous and induced fission		
	Explain what a chain reaction is and how a chain reaction in a nuclear reactor is controlled		
	Describe what nuclear fission is and how nuclei can be made to fuse together		
12.02.24	Explain where the Sun's energy comes from		
	Explain why it is difficult to make a nuclear fusion reactor		
	State what radon gas is and why it is dangerous		
	Evaluate the safety of nuclear reactors including the disposal of nuclear waste		
	State what the moment of a force measures		
	Calculate the moment of a force and explain how it can be increased		

Triple Science 'I Can' Statements

Date	'I Can' statements	Yes	No
04.03.24	Explain why levers are force multipliers and how you can tell if a lever is a force multiplier		
	Explain what gears do and how they can give a bigger turning effect		
	Identify forces that can turn an object and if it is an clockwise or anticlockwise turn		
	Calculate the size of a force acting on a balanced object		
	Describe changes of momentum		
	Explain the impact force and momentum when two vehicles collide and how the safety measures on modern cars have improved passenger safety		
	State what is meant by pressure and its units		
	Apply the pressure equation and know why the area of contact is important in pressure applications		
11.03.24	Describe the changes in pressure at different depths in a liquid		
	Calculate the pressure caused by a liquid column		
	Explain why the atmosphere exerts a pressure and how it changes with altitude		
	Explain what causes upthrust and whether an object floats or sinks		
	Biology		
18.03.24	Describe the advantages and disadvantages of asexual and sexual reproduction and explain that some organisms can reproduce asexually or sexually dependent on the circumstances		
	Explain what happens in mutations and how genes are expressed		
	Describe the work of Mendel and how his work fits into modern ideas of genetics		
	Describe the work of Charles Darwin and the modern-day theory of evolution including why his ideas of evolution were only gradually accepted		
	Describe the work of Alfred Russel Wallace and his ideas of how new species arose		
	State what affects the rate of decomposition		
	Describe how to make compost		
08.04.24	Evaluate the effects of environmental change on the distribution of organisms		
	Describe different types of environmental changes		
	Construct accurate pyramids of biomass from appropriate data about the different trophic levels		
	State the amount of biomass transferred from one trophic level to the next and how biomass is lost at each stage		
	State some of the factors that threaten global food security		
	Evaluate the advantages and disadvantages of modern farming techniques		
	Chemistry		
15.04.24	Describe how to test for positive ions		
	Describe how to test for negative ions		
	Evaluate the use of instrumental analysis in chemistry		
	Describe how to interpret results from flame emission spectroscopy		
	Describe how to investigate the conditions necessary for rusting		
	Describe how to protect from rusting		
	State some examples of common alloys and explain why metals are alloyed		
	Explain how changing reaction conditions can modify the properties of polymers		

Triple Science 'I Can' Statements

Date	'I Can' statements	Yes	No
22.04.24	Describe the difference between thermosetting and thermosoftening plastics		
	Describe the properties of glass and clay ceramics, polymers, composites and metals and how their properties relate to their uses		
	Explain why nitrogen-based fertilisers are needed to improve crop yields		
	State the raw materials and conditions used to manufacture ammonia		
	Explain how the commercially used conditions for the Haber process are related to availability, cost, energy supplies and equilibrium position		
	Describe the properties of glass and clay ceramics, polymers, composites and metals and how their properties relate to their uses		
29.04.24	Explain why nitrogen-based fertilisers are needed to improve crop yields		
	State the raw materials and conditions used to manufacture ammonia		
	Explain how the commercially used conditions for the Haber process are related to availability, cost, energy supplies and equilibrium position		
	Describe how fertilisers can be made in the lab and in industry		
	Physics		
06.05.24	State what affects the loudness of a musical note		
	Explain what ultrasound waves are and how they can be used in medical imaging		
	Describe what seismic waves are and how they are produced		
	Explain the difference between primary and secondary seismic waves		
	Describe the information that seismic waves give about the earth		
	State the laws of reflection at a plane mirror		
	State where light refraction takes place		
	Explain how a light ray refracts as it goes from air to glass or glass to air		
13.05.24	Describe the difference between a translucent object and a transparent objects		
	Describe the difference between convex and concave lenses		
	Calculate magnification		
	Describe the formation of images using lenses		
	Describe the uses of electromagnets		
	Explain how devices that use electromagnets work		
	Describe what the generator effect is		
	Explain how potential difference can be induced in a wire and what affects its size		
	Explain how to deduce the direction of an induced current		
	Explain the construction of an alternator and dynamo		
20.05.24	Explain the use of step-up and step-down transformers		
	Use the transformer equation in calculations		
	Describe how the solar system formed		
	State what is meant by a protostar		
	Explain how energy is released inside the sun		
	Describe the lifecycle of a star		
	Explain why planets and satellites move in orbits and what affects the speed of an orbit		
	Describe what red shift is and what it tells us about our universe		
	Describe what the big bang theory is and the evidence for it		

Maths 'I Can' Statements

Date	'I Can' statements	Yes	No
	Indices and Standard Form		
11.09.23	Calculate indices involving multiplication and division		
	Calculate indices involving brackets		
	Calculate indices involving algebra		
	Understand how to simply negative indices		
	Convert numbers into standard form		
18.09.23	Convert numbers into ordinary numbers		
	Multiply numbers in standard form		
	Convert numbers into standard form with negative indices		
	Expression and Formulae		
25.09.23	Write expressions using algebraic notation		
	Simplify expressions		
	Collect like terms with index laws		
02.10.23	Substitute into simple expressions		
	Substitute into expressions involving indices		
	Rearrange formulae		
	Expand 2 separate single brackets and simplify expressions		
09.10.23	Expand double brackets and simplify		
	Factorise into single brackets		
	Factorise into double brackets		
16.10.23	Set up and solve simple equations		
	Solve one-sided equations (unknown on one side)		
	Solve two-sided equations (unknown on both sides)		
	Data		
23.10.23	Find the mean, median, mode and range of a list of data		
	Find averages and range from a frequency table		
06.11.23	Draw scatter diagrams, including drawing a line of best fit to make predictions		
	Recognise correlation of scatter diagrams and know that it does not indicate causation		
13.11.23	Draw and interpret stem and leaf diagrams to find averages/range		
	Design questionnaire, data collection sheet/two way table		
20.11.23	Draw and interpret time series graphs		
	Draw and interpret bar charts and pictograms		
27.11.23	Compare data from different representations		
	Draw and interpret pie charts		
	Multiplicative Reasoning		
04.12.23	Draw and measure line segments and angles in geometric shapes		
	Construct congruent triangles		
	Construct similar shapes by enlargement		
	Enlarge a shape and describe enlargement including the centre of enlargement		
	Enlarge a shape with a negative scale factor		
11.12.23	Calculate a percentage of a quantity		
	Find the outcome of a given percentage increase or decrease		
01.01.24	Calculate reverse percentage and percentage change		
08.01.24	Solve worded real-life problems involving percentages		
	Calculate simple interest		
15.01.24	Calculate compound interest		

Maths 'I Can' Statements

Date	'I Can' statements	Yes	No
22.02.24	Solve problems involving speed, distance and time		
	Solve problems involving unit pricing		
	Constructions		
29.01.24	Read and construct scale drawings		
	Measure and write bearings		
	Draw bearings accurately to solve real-life problems		
	Construct triangles using ruler and compasses or protractor		
05.02.24	Construct the perpendicular bisector of a line		
19.02.24	Construct the perpendicular from a point on a line		
26.02.24	Construct the bisector of an angle		
	Know that the perpendicular distance from a point to a line is the shortest distance to the line		
	Draw plans and elevations given 3-D shapes		
	Draw a sketch of the 3-D shape given plans and elevations		
	Sequence, Inequalities, Equation & Proportion		
04.03.24	Understand what is meant by the term inequality and show them on a number line		
	Solve an inequality with terms on both sides		
	Generate and describe sequences using a term-to-term rule		
	Generate sequences using nth term formula by substitution		
	Find the nth term formula of a linear sequence		
11.03.24	Find the nth term formula of patterns		
	Recognise geometric sequences		
	Recognise quadratic sequences		
18.03.24	Identify direct and inverse proportional graphs		
	Form the direct proportion formulae		
	Form the inverse proportion formulae		
	Solve worded problems on direct and inverse proportion		
	Circle, Pythagoras & Prisms		
08.04.24	Identify all the different parts of a circle		
	Calculate the circumference and area of a circle		
	Calculate the area of composite shapes		
15.04.24	Use Pythagoras theorem to find missing sides in right angled triangles		
22.04.24	Use trigonometry to find missing sides and angles in right angled triangles		
29.04.24	Use trigonometry to find missing sides and angles in right angled triangles		
06.05.24	Calculate the volume of 3D shapes		
13.05.24	Calculate the surface area of 3D shapes		
20.05.24	Apply angle facts, triangle congruence and similarity to find missing angles in shapes		

Computer Science 'I Can Statements'

Date	'I Can' statements	Yes	No
	1.1 Systems Architecture		
11.09.23	I can explain what actions occur at each stage of the fetch-decode-execute cycle.		
	I can state the role and purpose of each component (ALU, CU, Cache, Registers) and what it manages, stores or controls during the fetch-execute cycle.		
	I can explain the purpose of each register (MAR, MDR, PC, Accumulator) and what it stores (data or address)		
18.09.23	I can explain the difference between storing data and an address.		
	I can explain the effects of changing any of the common characteristics of CPUs (clock speed, cache, number of cores) on system performance.		
	I can explain what embedded systems are, including the typical characteristics and examples of them.		
	1.2 Memory and Storage		
25.09.23	I can explain the key characteristics of RAM and ROM.		
	I can explain the need for virtual memory, including the transfer of data between RAM and hard drive.		
	I can explain why computers have secondary storage.		
02.10.23	I can compare advantages and disadvantages (capacity, speed, portability, durability, reliability, cost) of different storage mediums (optical, magnetic, solid state).		
	I can explain why data must be stored in binary format		
	I can convert between binary and denary.		
09.10.23	I can convert between binary and hexadecimal.		
	I can carry out binary shifts and explain the effect on a number.		
	I can explain how characters are stored in binary using ASCII or UNICODE.		
16.10.23	I can explain how the number of characters is limited by the bits available.		
	I can explain that each pixel in an image has a specific colour, represented by a specific code.		
	I can explain the effect on image size and quality when changing colour depth and resolution		
30.10.23	I can explain how metadata stores additional image information (height, width)		
	I can explain how analogue sounds must be stored in binary.		
	I can explain the impact of sample rate (Hz), Duration and Bit Depth on the quality and file size of a sound file.		
06.11.23	I can calculate the file size of sound, image and text files.		
	I can explain the need for and advantages of compression.		
	I can explain the difference between lossy and lossless compression.		
	1.3 Networks and Topologies		
13.11.23	I can explain the characteristics of LAN and WAN networks.		
	I can explain the different factors that can affect the performance of a network (number of devices, bandwidth).		
	I can explain the tasks performed by each piece of hardware (WAP, Routers, Switches, NIC, Transmission Media).		
20.11.23	I can explain a DNS's role in the conversion of a URL to an IP address		
	I can explain advantages and disadvantages of the Star and Mesh topologies		
	I can explain advantages and disadvantages of the Cloud.		
27.11.23	I can compare benefits and drawbacks of wired versus wireless connection.		
	I can explain the principle of a (communication) protocol as a set of rules for transferring data		
	I can explain the basic principles of each protocol (TCP/IP, HTTP, HTTPS, FTP, POP, IMAP, SMTP) i.e. its purpose and key features		

Computer Science 'I Can Statements'

Date	'I Can' statements	Yes	No
	1.4 Network Security		
04.12.23	I can demonstrate knowledge of each form of attack (Malware, Social Engineering, Brute-Force attack, Denial of Service, Data interception and theft, SQL injection) including its purpose and how it is used.		
	I can demonstrate knowledge of each prevention method (penetration testing, anti-malware software, firewalls, user access levels, passwords, encryption, physical security) including how it limits the attack.		
	1.5 Operating Systems		
11.12.23	I can explain what each function of the operating system does (user interface, memory management, multitasking, peripheral management and drivers, user management, file management.		
	I can explain that data is transferred between devices and the processor.		
01.01.24	I can explain how that computers often come with utility software, and how this performs housekeeping tasks		
	I can explain the purpose of the identified utility software (encryption, defragmentation, data compression) and why it is required		
	1.6 Ethical, legal, cultural and environmental impacts of digital technology.		
08.01.24	I can explain the purpose of each piece of legislation (The Data Protection Act 2018, Computer Misuse Act 1990, Copyright Designs and Patents Act 1988) and the specific actions it allows or prohibits.		
	I can discuss the impact of technology on wider society, including ethical issues, cultural issues, environmental issues, privacy issues.		
	Features of open source (providing access to the source code and the ability to change the software) Features of proprietary (no access to the source code, purchased commonly as off-the-shelf)		
	2.1 Algorithms		
15.01.24	I can explain the principles of abstraction, decomposition and algorithmic thinking and how they are used to define and refine problems.		
	I can create algorithms using Pseudocode.		
	I can create algorithms using Flowcharts		
29.01.24	I can trace the values of variables using trace tables.		
	I can apply the linear search to a data set.		
	I can apply the binary search to a **sorted** data set		
05.02.24	I can apply the bubble sort to a data set.		
	I can apply the merge sort to a data set.		
	I can apply the insertion sort to a data set.		
12.02.24	I can use basic data handling operations (open, read, write, close).		
	I can use SQL to search for data.		
	2.2 Programming Fundamentals		
26.02.24	I can explain the use of the three programming constructs (sequence, selection, iteration).		
	I can use variables, constants, operators, inputs, outputs and assignments.		
	I can use the common arithmetic operators (e.g. add, subtract, modulus quotient, exponentiation) and comparison operators (e.g. >)		
04.03.24	I can apply the Boolean operators AND, OR and NOT.		
	I can identify the data types integer, real, Boolean, character, string.		
	I can cast between data types.		
11.03.24	I can carry out basic string manipulation (concatenation, slicing).		
	I can use basic data handling operations (open, read, write, close).		
	I can use SQL to search for data.		

Computer Science 'I Can Statements'

Date	'I Can' statements	Yes	No
	2.3 Producing robust programs		
18.03.24	I can explain the defensive design considerations (anticipating misuse, authentication).		
	I can explain the need for input validation.		
	I can explain the features of maintainable code (use of sub programs, naming conventions, indentation, commenting).		
08.04.24	I can explain the purpose of testing.		
	I can explain the differences between iterative and final/terminal testing.		
	I can explain the difference between syntax and logic errors.		
15.04.24	I can select and use suitable test data (normal, boundary, invalid, erroneous).		
	2.4 Boolean Logic		
22.04.24	I can complete truth tables and draw the logic gate symbol for the AND Gate.		
	I can complete truth tables and draw the logic gate symbol for the OR Gate.		
	I can complete truth tables and draw the logic gate symbol for the NOT Gate.		
	I can work with more than one gate in a logic diagram and truth table.		
	2.5 Programming languages and Integrated Development Environments		
29.04.24	I can explain the differences between high- and low-level programming languages		
	I can explain the purpose of and need for translators		
06.05.24	I can explain the characteristics of a compiler		
13.05.24	I can explain the characteristics of an interpreter		
20.05.24	How each of the tools and facilities of an IDE (editors, error diagnostics, run-time environment, translators) can be used to help a programmer develop a program		

Geography 'I Can Statements'

Date	'I Can' Statements – Disciplinary Knowledge	Yes	No
11.09.23	I can recognise physical and human geography features on 1:25000 and 1:50000 OS maps.		
18.09.23	I can use and interpret a variety of graphs, infographs and charts e.g. choropleth maps to recognise changes over time		
25.09.23	I can understand the kinds of question capable of being investigated through fieldwork and an understanding of the geographical enquiry processes appropriate to investigate these		
02.10.23	I can process and present fieldwork data in various ways including maps, GIS, graphs and diagrams (hand drawn and computer-generated).		
09.10.23	I can reflect critically on fieldwork data, methods used, conclusions drawn and knowledge gained.		
	'I Can' Statements – Substantive Knowledge	**Yes**	**No**
16.10.23	I can recognise that urbanisation is a global process		
	I can recognise that degree of urbanisation varies across the UK		
30.10.23	I can understand why Birmingham (MEDC urban area case study) is influenced by its structure and function		
06.11.23	I can explain why globalisation and economic change creates challenges for Birmingham		
13.11.23	I can understand why the character of Mexico City is influenced by its fast rate of growth		
20.11.23	I can explain why rapid growth in Mexico City results in a number of challenges that need to be managed		
27.11.23	I can recognise that development measurements vary		
04.12.23	I can understand why the level of development varies globally		
11.12.23	I can understand why uneven global development has had a range of consequences		
01.01.24	I can explain why a range of strategies has been used to try to address uneven development		
08.01.24	I can explain why the level of development of India (Emerging Economy case study) is influenced by its location and context in the world		
15.01.24	I can understand why the interactions of economic, social and demographic processes influence the development of the chosen developing or emerging country		
22.01.24	I can recognise that changing geopolitics and technology impact on India		

Geography 'I Can Statements'

Date	'I Can' Statements – Disciplinary Knowledge	Yes	No
29.01.24	I can understand why are positive and negative impacts of rapid development for the people and environment of India		
05.02.24	I can recognise that a natural resource is any feature or part of the environment that can be used to meet human needs		
12.02.24	I can understand why the distribution and consumption of natural resources varies on a global and a national scale		
19.02.24	I can recognise that the supply of fresh water supply varies globally		
04.03.24	I can explain why differences between the water consumption patterns of developing countries and developed countries		
11.03.24	I can explain why countries at different levels of development have water supply problems		
18.03.24	I can recognise that meeting the demands for water resources could involves technology and interventions by different interest groups		
08.04.24	I can explain why the management and sustainable use of water resources are required at a range of spatial scales from local to international		
15.04.24	I can use statistics (e.g. changing means) to recognise trends over time e.g. population data, development statistics, socio-economic changes		
22.04.24	I can use Geographical Information Systems to recognise changes in human features over time e.g. changing land use in urban areas		
29.04.24	I can understand the range of techniques and methods used in fieldwork, including observation and different kinds of measurement.		
06.05.24	I can analyse and explain the data collected in the field using knowledge of relevant geographical case studies and theories.		
13.05.24	I can explain why Birmingham is being changed by movements of people, employment and services		
20.05.24	I can explain why Mexico City (Emerging Economy urban area case study) is influenced by its structure and function		

History 'I Can Statements'

Date	'I Can' Statements – Disciplinary Knowledge	Yes	No
11.09.23	Demonstrate knowledge and understanding of the key features and characteristics of the period studied.		
	Explain and analyse historical events and periods studied using second-order historical concepts.		
18.09.23	Analyse, evaluate and use sources (contemporary to the period) to make substantiated judgements, in the context of historical events studied.		
	Analyse, evaluate and make substantiated judgements about interpretations (including how and why interpretations may differ) in the context of historical events studied		
25.09.23	Analyse, evaluate and make substantiated judgements utilising evidence and weighing different factors against one another		
	'I Can' Statements – Substantive Knowledge	**Yes**	**No**
02.10.23	Explain the nature and aims of the Treaty of Versailles and determine how sensible it was		
	Explain the extent to which the peacemakers after WW1 achieved their aims		
09.10.23	Explain German objections to the ToV and nature of the Wall Street Crash and Great Depression on European politics		
	Explain the composition of the League of Nations and its purpose		
	Evaluate the successes and failures of the League of Nations		
16.10.23	Explain the Locarno treaties and the Kellogg-Briand Pact		
	Explain the Manchurian and Abyssinian crises and their consequences		
	Explain the failure of the League to avert war in 1939.		
23.10.23	Explain how important early moves were by Hitler in creating tension in the 1930s. Did he intend to cause the Second World War?		
	Explain how the remilitarisation of the Rhineland, Mussolini, the Anti-Comitern Pact escalated tensions in Europe prior to 1939		
06.11.23	Evaluate reasons for and against the policy of appeasement		
	Explain the significance of the Sudeten crisis and Munich and ending of appeasement		
13.11.23	Explain the collapse of the policy of appeasement and the relative importance of the different factors which contributed to the outbreak of war in 1939 – the occupation of Czechoslovakia, the USSR and Nazi-Soviet Pact		
	Explain how the invasion of Poland led to the outbreak of war		
20.11.23	Compare the levels of responsibility for the outbreak of war, including that of key individuals: Hitler, Stalin and Chamberlain.		
	Reach a judgement about whether Neville Chamberlain deserve to be blamed for his policy of Appeasement?		
27.11.23	Reach a clear overall conclusion assessing the importance of differing factors. Such as the Treaty of Versailles, the League of Nations, the Wall Street Crash ,Hitler, Stalin, appeasement and the attitudes of Britain, France and other powers such as the USA and Italy.		
04.12.23	Explain the growth of parliamentary government and the influence of Prussian militarism		
11.12.23	Explain the role of industrialisation and the growth of socialism in Germany		
01.01.24	Explain the impact the Navy Laws had on the Kaiser's relationship with the government.		
	Explain Germany war weariness in 1918 and its role in the end of monarchy		

History 'I Can Statements'

Date	'I Can' Statements – Disciplinary Knowledge	Yes	No
18.01.24	Explain financial problems in Germany post-1918 - reparations		
	Explain the impact of the Great Depression in Germany and how this led to hyperinflation		
15.01.24	Explain the significance of the occupation of the Ruhr		
	Explain political unrest in Weimar Germany 1919-24 – the Spartacists, Kapp Putsch and the Munich Putsch		
22.01.24	Explain the extent of recovery during the Stresseman years – the Dawes Plan, Young Plan and role of international agreements of recovery		
	Compare different reasons why extremism emerged in Germany and how the role of the SA and Hitler's appeal became more prominent, 1928-32		
29.01.24	Evaluate how Hitler became Chancellor; a brief narrative of the plotting by key political figures including Hindenburg.		
	Explain how the Reichstag fire was used to promote Hitler's dictatorship		
05.02.24	Explain the significance of the Enabling Act and how this helped Hitler eliminate political opposition in Germany		
12.02.24	Explain how Hitler neutralised opposition in Germany – notably through the Night of the Long Knives		
19.02.24	Reach a judgement of how the the Nazis brought benefits to Germans and Germany, 1933-45.		
04.03.24	Evaluate Nazi policies towards women: the reasons for the policies; the methods used; their level of success and their impact on women.		
11.03.24	Explain Nazi policies towards young people: the reasons, the methods, their level of success and their impact on young people		
18.03.24	Explain Nazi policies towards churches and religion: the reasons, the methods, their level of success and their impact on churches and individuals		
08.04.24	Identify Nazi racial policy and their effects – why and how were minorities persecuted? How and why did this change over time including the Final Solution? How was it possible to carry out persecution out on a large scale?		
15.04.24	Explain the role of Josef Goebbels, the use of Nazi propaganda and their level of success on the German people		
22.04.24	Explain the extent of the police state, Himmler, the SS and Gestapo		
29.04.24	Explain who opposed the Nazis, why and how effectively they were deal with.		
06.05.24	Explain the role of Nazi leadership in orchestrating tensions that led to the outbreak of WW2		
13.05.24	Evaluate the key reasons why WW2 broke out in 1939		
20.05.24	Explain my view on how far appeasement was to blame for WW2 starting in 1939		

RS 'I Can Statements'

Date	'I Can' Statements	Yes	No
12.09.23	Understand the nature of God - God as omnipotent, loving and just, and the problem of evil and suffering Understand key beliefs of Islam, including - The six articles of faith in Sunni Islam and five roots in Shi'a Islam, and the key similarities and differences		
19.09.23	Understand the oneness of God and the Trinity: Father, Son and Holy Spirit		
26.09.23	Explain different Christian beliefs about creation including the role of Word and Spirit (John 1:1-3 and Genesis 1:1-3) Know what Tawhid (the Oneness of God)is, and what it says in the Qur'an Surah 112 about it.		
03.10.23	Understand different Christian beliefs about the afterlife and their importance, including: resurrection and life after death; judgement, heaven and hell Understand what Muslims believe about the nature of God: omnipotence, beneficence, mercy, fairness and justice/Adalat in Shi'a Islam, including different ideas about God's relationship with the world: immanence and transcendence		
10.10.23	Understand the incarnation and Jesus as the Son of God Explain what Muslims believe about Angels, their nature and role, including Jibril and Mika'il		
31.10.23	Understand what is meant by the crucifixion, resurrection and ascension of Jesus Understand predestination and human freedom and its relationship to the Day of Judgement according to Muslims		
05.12.23	Understand what is meant by sin, including original sin Understand Muslim thought about Akhirah (life after death), human responsibility and accountability, resurrection, heaven and hell		
12.12.23	Understand what Christians mean by the means of salvation, including law, grace and Spirit Know about the Muslim attitudes to Risalah (Prophethood) including the role and importance of Adam, Ibrahim and Muhammad		
09.01.24	Understand the role of Christ in salvation including the idea of atonement for Christians Understand the Muslim holy books: The Qur'an: revelation and authority, the Torah, the Psalms, the Gospel, the Scrolls of Abraham and their authority		
16.01.24	Understand different forms of worship for Christians, including liturgical, non-liturgical and informal, and how the Bible is used Know about the imamate in Shi'a Islam: its role and significance		
24.01.24	Know about different types of private worship and how prayer is significant to Christians, including the Lord's Prayer, set prayers and informal prayer Understand Muslim attitudes to worship The Five Pillars of Sunni Islam and the Ten Obligatory Acts of Shi'a Islam (students should study the Five Pillars and jihad in both Sunni and Shi'a Islam and the additional duties of Shi'a Islam)		
30.01.24	Understand the role and meaning of the sacraments, including the meaning of sacrament for Christians, the sacrament of baptism and its significance for Christians, infant and believers' baptism, and different beliefs about infant baptism Understand Shahadah: declaration of faith and its place in Muslim practice		

RS 'I Can Statements'

Date	'I Can' Statements	Yes	No
06.02.24	Know about the sacrament of Holy Communion/Eucharist and its significance for Christians, including different ways in which it is celebrated and different interpretations of its meaning Understand Salah and its significance: how and why Muslims pray including times, directions, ablution (wudu), movements (rak'ahs) and recitations; salah in the home and mosque and elsewhere; Friday prayer: Jummah; key differences in the practice of salah in Sunni and Shi'a Islam, and different Muslim views about the importance of prayer		
20.02.24	Understand the role and importance of pilgrimage and celebrations for Christians including: two contrasting examples of Christian pilgrimage: Lourdes and Iona, the celebrations of Christmas and Easter, including their importance for Christians in Great Britain today Understand Sawm: the role and significance of fasting during the month of Ramadan including origins, duties, benefits of fasting, the exceptions and their reasons, and the Night of Power, Qur'an 96:1-5. 16		
27.02.24	Know about the role of the church in the local and worldwide community; including the role of the Church in the local community, food banks and street pastors		
06.03.24	Understand the place of mission, evangelism and Church growth; including the importance of the worldwide Church, such as working for reconciliation, how Christian churches respond to persecution, the work of one of the following: Catholic Agency For Overseas Development (CAFOD), Christian Aid, Tearfund		
13.03.24	Understand the nature of God - God as omnipotent, loving and just, and the problem of evil and suffering		
20.03.24	Understand the oneness of God and the Trinity: Father, Son and Holy Spirit		
27.03.24	Explain different Christian beliefs about creation including the role of Word and Spirit (John 1:1-3 and Genesis 1:1-3) Understand Zakah: the role and significance of giving alms including origins, how and why it is given, benefits of receipt, Khums in Shi'a Islam		
17.04.24	Understand different Christian beliefs about the afterlife and their importance, including: resurrection and life after death; judgement, heaven and hell.		
24.04.24	Understand Hajj: the role and significance of the pilgrimage to Makkah including origins, how hajj is performed, the actions pilgrims perform at sites including the Ka'aba at Makkah, Mina, Arafat, Muzdalifah and their significance		
06.05.24	Understand Jihad: different understandings of jihad: the meaning and significance of greater and lesser jihad; origins, influence and conditions for the declaration of lesser jihad		
13.05.24	Explain the main Muslim festivals and commemorations and their importance for Muslims in Great Britain today, including the origins and meanings of Id-ul-Adha, Id-ul-Fitr, Ashura		
20.05.24	Understand key beliefs of Islam, including - The six articles of faith in Sunni Islam and five roots in Shi'a Islam, and the key similarities and differences		

Business 'I Can' Statements

Date	'I Can' statements	Yes	No
11.09.23	I can explain why new business ideas come about I can explain how new business ideas come about		
18.09.23	I can explain the impact of risk and reward on a business I can explain the role of business enterprise and the purpose of business		
25.09.23	I can explain the role of an entrepreneur I can identify and understand customer needs		
02.10.23	I can explain the purpose of market research I can explain the methods of market research		
09.10.23	I can use different types of market research I can explain how segmentation is used to target different customers		
16.10.23	I can assess how the competitive environment will impact on a business I can explain how aims and objectives differ		
23.10.23	I can calculate revenue, costs and profit I can calculate interest		
06.11.23	I can draw and interpret break even graphs I can assess the importance of cash to a business		
13.11.23	I can calculate cash-flow I can explain and assess the different methods of finance for a business		
20.11.23	I can describe the different types of ownership I can assess the most appropriate type of ownership		
27.11.23	I can explain and assess the different factors that influence a location decision I can assess the different elements of the marketing mix		
04.12.23	I can assess the impact of technology onto business I can assess the role and importance of a business plan		
11.12.23	I can explain what a stakeholder is and how it has influence I can explain the different types of technology in business		
01.01.24	I can explain and assess the ways in which technology influence business I can explain and asses the ways in which the economy influence business – Unemployment, income and inflation		
08.01.03	I can explain and asses the ways in which the economy influence business – interest rates, taxation and exchange rates		
15.01.24	I can explain and assess the ways in which external influences impact on a business I can assess the different methods of growth and their impact I can assess the different sources of finance		
22.01.24	I can explain the different types of business aims and objectives I can assess the impact of globalisation onto a business		
29.01.24	I can assess how ethical considerations impact on a business I can explain the sections of the design mix		
05.02.24	I can explain and assess the different pricing strategies I can explain how promotion is used as assess when it is appropriate to use different types		
12.02.24	I can explain the different methods of distribution		
19.02.24	I can assess how each element of the marketing mix can influence the other elements I can explain the different production processes and assess the impact of technology on production		
04.03.24	I can interpret bar gate stock graphs and the role of suppliers and how they impact on a business I can explain and assess the importance of quality		
11.03.24	I can explain the sales process		

Business ‘I Can’ Statement

Date	‘I Can’ statements	Yes	No
18.03.24	I can calculate and interpret gross and net profit, gross and net profit margin and ARR		
08.04.24	I can use quantitative data to support, inform and justify business decisions.		
15.04.24	I can explain the different types of organisation structure		
22.04.24	I can explain and assess the different types of working		
29.04.24	I can explain and assess the different types of job roles and responsibilities		
06.05.24	I can explain and assess the different types of training		
13.05.24	I can explain and assess the different methods of motivation		
20.05.24	I can explain good leadership in different business situations		

Psychology 'I Can' Statements

Date	'I Can' statements	Yes	No
11.09.23	I can give a definition of independent and dependent variable and know how they can be manipulated.		
18.09.23	I can explain co-variables and how they can be measured.		
25.09.23	I can explain extraneous variables and how they can be controlled, including the use of standardisation		
02.10.23	I can identify different types of interviews and explain their strength and weaknesses.		
09.10.23	I can identify what is a "Case Study"		
16.10.23	I can explain the strength and weakness of the case studies		
23.10.23	I can explain what Descriptive Statistics is I can explain the Measures of Central Tendency		
06.11.23	I can explain how criminality can be explained by operate conditioning		
13.11.23	Understand criminality through social learning		
20.11.23	Explain how criminality can be explained by biological explanations		
27.11.23	Describe personality types		
04.12.23	Evaluate strengths and weaknesses of personality theory as an explanation of criminality		
11.12.23	Explain types of punishments for offenders		
01.01.24	Explain two treatments used to rehabilitate and reduce criminal and antisocial behaviour and increase prosocial behaviour		
08.01.03	Evaluate treatments relating to offences and criminality		
15.01.24	Describe and evaluate Psychological studies including Bandura, Ross and Ross (1961)		
22.01.24	Describe and evaluate Psychological studies including Bandura, Ross and Ross (1961)		
29.01.24	Explain the features, functions and benefits of sleep		
05.02.24	Describe the four stages of sleep		
12.02.24	Explain the sleep cycle		
19.02.24	Give strengths and weaknesses of the sleep cycle explanations		
04.03.24	Explain bodily rhythms of sleep including circadian and ultradian		
11.03.24	Describe hormone function including pineal gland, and melatonin, Understand Zeitgebers, including light in relation to the sleep-wake cycle		
18.03.24	Explain sleep disorders including insomnia		
08.04.24	Describe and evaluate Freud's theory of how dreams access the unconscious		
15.04.24	Explain the manifest and latent content of dreams and dream work		
22.04.24	Describe activation synthesis theory and evaluate		
29.04.24	Describe and evaluate the study 'Little Hans'		
06.05.24	Describe and evaluate the study Siffre – Six months alone in a cave		
13.05.24	Relate my learning to exam knowledge and content		
20.05.24	Evaluate my exam performance in readiness for the GCSE exams		

Art and Design 'I Can Statements'

Date	'I Can' statements	Yes	No
	AO1 - Develop		
11.09.23 18.09.23	Demonstrate independent critical investigation and in-depth understanding of our sources to develop ideas convincingly.		
25.09.23 02.10.23 09.10.23 16.10.23	Demonstrate competent critical investigation and understanding of sources to develop ideas coherently.		
23.10.23 06.11.23 13.11.23 20.11.23	Demonstrate limited critical investigation and understanding of sources to develop ideas simply.		
	AO2 - Refine		
27.11.23 04.12.23 11.12.23 01.01.24	Effectively apply a wide range of creative and technical skills, experimentation and innovation to develop and refine work.		
08.01.24 15.01.24 22.01.24 29.01.24	Apply a range of creative and technical skills and some experimentation and innovation to develop and refine work.		
05.02.24 12.02.24 19.02.24 04.03.24	Apply basic creative and technical skills to limited experimentation and innovation.		
	AO3 - Record		
11.03.24 18.03.24 25.03.24 01.04.24	Record and use perceptive insights and observations with well-considered influences on ideas.		
08.04.24 15.04.24 22.04.24 29.04.24	Record and use clear observations to influence ideas.		
06.05.24 13.05.24 20.05.24	Record my thoughts to evaluate and appraise my own and other's work		

Sport Btec 'I Can' Statements

Date	'I Can' statements	Yes	No
11.09.23	Identify a number of sports and physical activity.		
18.09.23	Understand the difference between physical fitness and skill related fitness.		
25.09.23	Identify appropriate training methods to develop both physical and skill related fitness.		
02.10.23	Apply appropriate training techniques to develop specific needs.		
09.10.23	Analysis of data to inform training programmes to help improve specific components of fitness.		
16.10.23	Select appropriate concepts and make recommendations to improve a person's physical and skill related fitness.		
23.10.23	Make judgements about the consequences of effective and ineffective application of techniques, providing solutions, plans and training programmes to improve.		
06.11.23	Compare training methods and approaches. Such as principles of training.		
13.11.23	Use appropriate key words when writing in depth about principles of training and other training		
20.11.23	Explain the components of fitness and how they can be improved.		
27.11.23	Describe the importance of components of fitness when identifying areas for improvement.		
04.12.23	Understand exercise intensity.		
11.12.23	Measure exercise intensity.		
01.01.24	Identify the basics principles of training (FITT).		
08.01.03	Understand the way principles of training (FITT) can impact training programmes.		
15.01.24	Identify and explain additional principles of training, including, progressive overload, adaptation etc.		
22.01.24	Use and set up equipment safely.		
29.01.24	Identify and use the correct training techniques required to improve.		
05.02.24	Explain the requirements for undertaking the fitness training method selected, including warm up and cool down.		
12.02.24	Link each fitness training method to the associated health-related/skill-related component of fitness.		
19.02.24	Highlight advantages and disadvantages for each fitness training method.		
04.03.24	Apply the correct exercise intensity to training methods.		
11.03.24	Change fitness training methods for given situations. Such as client goals/needs		
18.03.24	Identify the appropriate training methods for the following needs; flexibility, strength, muscular endurance and training power, aerobic endurance and speed training,		
08.04.24	Take part in fitness testing to identify areas for improvement.		
15.04.24	Apply the correct training method to improve both health-related and skill-related fitness.		
22.04.24	Be able to safely perform elements from each training method, including the safe use of weights, and circuit training.		
29.04.24	List and explain aerobic endurance training methods.		
06.05.24	Identify speed training techniques and how to complete them.		
13.05.24	Understand the importance of recovering within a training programme.		
20.05.24	Explain how muscles can recover from strains, tears and other injuries		

PE 'I Can Statements'

Date	'I Can' statements	Yes	No
11.09.23 18.09.23	Talk about differences between my own and others performance and suggest improvements		
25.09.23	Apply suitable actions, which are appropriate to the task set.		
02.10.23	See how my work is similar to and different to others.		
09.10.23	Use this understanding to improve my performance		
16.10.23	Compare and comment on skills and techniques.		
23.10.23 06.11.23	Analyse ideas used in my own and others work and use this understanding to improve performance		
13.11.23 20.11.23	Analyse and comment on skills and techniques and how they are applied in my own and others work.		
27.11.23	Analyse compositional aspects of performance and suggest ways to improve		
04.12.23 11.12.23	Analyse and comment on how skills, techniques and ideas can be used in my own and others work.		
01.01.24	Analyse a performance and suggest ways to improve it.		
08.01.24	Organise and officiate small sided games in different sports		
15.01.24	Officiate small sided games in at least 3 sports		
22.01.24 29.01.24	Organise, coach and/or choreograph confidently using a good level of communication.		
20.02.24 05.02.24	Analyse and comment on my own and others' work either as an individual or as part of a team		
12.02.24	Plan ways to improve my own and others performance		
19.02.24	Evaluate my own and others' work using ICT as a tool.		
04.03.24 11.03.24	Show that I understand the impact of skills, strategy, tactics and fitness on the quality of performance.		
18.03.24 08.04.24	Evaluate the impact of a skills drill or training routine on performance		
15.04.24 22.04.24	Explain the rules of a specified sport / team game		
29.04.24 06.05.24	Understand the difference between rules and etiquette in a team sport		
13.05.24 20.05.24	Understand why respect for opponents and the officials is a crucial aspect in sport		

Food 'I Can Statements'

Date	'I Can' statements	Yes	No
11.09.23	Understand the importance of health & safety in the food room		
18.09.23	Give some basic rules about hygiene when handling food		
25.09.23	Demonstrate hygiene and safety whilst working in the food room		
02.10.23	Read and interpret a recipe		
09.10.23	Know the principle method of cooking		
16.10.23	Use different methods of cooking		
23.10.23	Know the main food commodities		
30.10.23	Understand different categories of foods		
06.11.23	Understand nutrients in different food types		
13.11.23	know about the different types of kitchen equipment		
20.11.23	Identify different types of kitchen equipment (hand held & other)		
27.11.23	Understand and demonstrate how to safely use different types of kitchen equipment.		
04.12.23	Be able to prepare, cook and present simple dishes.		
11.12.23	How to store different foods		
18.12.24	Understand which storage methods can be used for which food types.		
08.01.24	Explore other methods of food storage e.g. tin foil		
15.01.24	Know where the main commodities can be obtained		
22.01.24	Identify different types of food suppliers		
29.01.24	Analyse the benefits of different suppliers		
05.02.24	Be able to use cooking skills to make home-cooked food that does not use pre-prepared, ready-cooked food		
12.02.24	Select and prepare ingredients for a recipe		
19.02.24	Use cooking skills when following a recipe		
04.03.24	Demonstrate food safety and hygiene throughout the preparation and cooking process		
11.03.24	Understand the value of passing on information about home cooking		
18.03.24	Reflect on own learning about the value of gaining cooking skills		
08.04.24	Identify ways to pass on information about home cooking		
15.04.24	Demonstrate an understanding of the hospitality industry		
22.04.24	Prepare, cook and present a 3 course meal		
29.04.24	Prepare nutritional drinks and smoothies		
06.05.24	Prepare, cook and present soup.		
13.05.24	Prepare, cook and present pizza		
20.05.24	Prepare, cook and present jacket potatoes		

DT 'I Can Statements'

Date	'I Can' statements	Yes	No
11.09.23	Carry out a risk assessment		
18.09.23	Explain the function of PPE		
25.09.23	Use tools and machinery safely		
02.10.23	Identify specialised tools and explain their uses		
09.10.23	Identify potential hazards in a workshop		
16.10.23	Explain the importance of working safely in the D & T workshop		
23.10.23	Give reasons for making a prototype		
30.10.23	Identify positive impacts of emerging technologies		
06.11.23	Identify negative impacts of emerging technology		
13.11.23	Describe the term market pull		
20.11.23	Describe the term technology push		
27.11.23	Explain automated manufacture		
04.12.23	Understand the impact of consumer choice on product design		
11.12.23	Explain the concept of product life cycle		
18.12.24	Explain what mass production means		
08.01.24	Explain what automated production is		
15.01.24	Analyse the impact of new technology within production impact industries and enterprise		
22.01.24	Analyse the impact new technology and products have on the environment.		
29.01.24	Discuss how products can be produced in a sustainable manor		
05.02.24	Explain what is meant by sustainability		
12.02.24	Explain how technological developments can help our understanding of different cultures and societies		
19.02.24	Explain why It is important that companies think morally and ethically about the production of goods.		
04.03.24	Highlight the positives and negatives of some of the ways companies provide energy for their factories and products		
11.03.24	Describe energy sources available to us and classify these into non-renewable and renewable sources		
18.03.24	Give examples of fossil fuels and their uses		
08.04.24	Give examples of environmental impacts from using fossil fuels		
15.04.24	Describe the impact of greenhouse gasses on the environment		
22.04.24	Analyse the use of CAD and CAM in design & technology highlighting its importance, and discuss projects that use CAM and CAD confidently.		
29.04.24	Describe the advantages of CAD and CAM		
06.05.24	Describe the disadvantages of CAD and CAM		
13.05.24	Evaluate my prototype designs to enable improvements to be identified		
20.05.24	Explain how production lines and automation processes work		