The Academic Curriculum

The intent of our academic curriculum is to deliver **Powerful Knowledge** to our students. At Creative Education Trust this is not contextualised as 'the knowledge of the powerful', but specialised knowledge in a range of subject disciplines. This will include both disciplinary knowledge and substantive knowledge within each area of study. This curriculum is not only designed to endow children with the social assets, skills and cultural capital needed to succeed and achieve, but also to instil in our children the power and confidence to question, synthesise and scrutinise in a range of disciplines, a variety of social contexts and in their own lives. Beyond a range of academic qualifications, the intended impact of this curriculum is for our students to be able to integrate into any social, academic or professional environment, as well as to question, instigate change or lead within those environments.

ABBEYFIELD SCHOOL
Creative Education Trust

Below you will find a detailed overview of what Year 12 students are learning in each of their subjects in Half Term 1 and 2 (September – December)

Year 12 Curriculum – Autumn Term 2020-21 - *To support parents and students.*

Subject	Autumn Term Topics
English	**Half Term 1 and 2: The Taming of the Shrew** Students are learning about the comedy genre through the study of the classic Shakespearian comedy The Taming of the Shrew. During this part of the course students will cover: - Close analysis of key scenes - The presentation of aspects of comedy - Stagecraft and the way that comedy is presented - Shakespearian context and traditions - Wider comedy theory **Half Term 1 and 2: The Importance of Being Earnest** Students are learning about the comedy genre through the study of The Importance of Being Earnest by Oscar Wilde. During this part of the course students will cover: - Context, including the life and times of Oscar Wilde - Characters, language and stagecraft - The presentation of aspects of comedy - Wider comedy theory

Maths	Students will develop their understanding of: <u>Pure Topics</u>: - Algebraic expressions - Quadratics - Equations and inequalities - Binomial expansion - Graphs and transformations - Straight line graphs - Circles - Algebraic Methods <u>Statistics Topics</u> - Collection of data - Measures of location and spread - Representation of data - Correlation - Probability - Statistical distributions
Further Maths	Students will develop their understanding of: <u>Pure Topics</u>: - Complex Numbers - Argand Diagrams - Series - Roots of Polynomials - Matrices - Linear Transformations <u>Statistics</u>: - Discrete Random Variables - Poisson Distribution

Core Maths	Students will be developing their understanding of key GCSE topics in Mathematics such as histograms, cumulative frequency curves and sampling. They will complete the 'Mokia 0' Project to develop independence in obtaining data and carrying out financial calculations.
BTEC Applied Science	Students will be covering: **Unit 1 – Principles and Applications of Science** This unit covers some of the key science concepts in Biology, Chemistry and Physics. The topic areas covered in this unit include: - animal and plant cells - Tissues - atomic structure and bonding - chemical and physical properties of substances related to their uses - waves and their application in communications
Biology	Students are will be learning and covering the following: **Skills Fortnight (first two weeks of term): Practical Skills & Foundations of Biology** Learners will be required to develop a range of practical skills throughout their course in preparation for the written examinations. These and the underpinning skills of Biology will be introduced here and reinforced throughout the course. **Module 2 - Basic Components of living systems, Biological Molecules, Enzymes** This module gives learners the opportunity to use microscopy to study the cell structure of a variety of organisms. Biologically important molecules such as carbohydrates, proteins, water and nucleic acids are studied with respect to their structure and function. The structure and mode of action of enzymes in catalysing biochemical reactions is studied. **Module 3 – Exchange and Transport, Exchange Surfaces and Breathing, Transport in animals, Transport in Plants** In this module, learners study the structure and function of gas exchange and transport systems in a range of animals and in terrestrial plants.

Chemistry	Students are will be learning and covering the following: **Skills Fortnight (first two weeks of term): Practical Skills & Foundations of Chemistry** Chemistry is a practical subject and the development of practical skills is fundamental to understanding the nature of Chemistry. Chemistry gives learners many opportunities to develop the fundamental skills needed to collect and analyse empirical data. This includes skills in planning, implementing, analysing and evaluating. **Unit 2 – Atoms, Ions and Compounds, Amount of Substance, Acids and Redox, Electrons and Bonding, Shapes of Molecules and Intermolecular Forces** This module provides learners with a knowledge and understanding of the important chemical ideas that underpin the study of A Level Chemistry: • atomic structure • quantitative chemistry: formulae, equations, amount of substance and the mole • reactions of acids • oxidation number and redox reactions • bonding and structure. The importance of these basic chemical concepts is seen as a prerequisite for all further chemistry modules and it is recommended that this module should be studied first during this course. This module allows learners to develop important quantitative techniques involved in measuring masses, gas and solution volumes, including use of volumetric apparatus.
Physics	Students are will be learning and covering the following: **Skills Fortnight: Practical Skills & Foundations of Physics** The aim of this module is to introduce important conventions and ideas that permeate the fabric of Physics. This includes understanding of physical quantities, S.I. units, scalars and vectors helps physicists to effectively communicate their ideas within the scientific community **Module 3 - Forces and Motion** In this module, learners will learn how to model the motion of objects using mathematics, understand the effect forces have on objects, learn about the important connection between force and energy, appreciate how forces cause deformation and understand the importance of Newton's laws of motion.

History	Students are learning: **Half Term 1:** Knowledge: Units 1 & 2: Democracy & Dictatorship. The Mid-Tudor Crisis. Skills: Short and Long essay writing. Analysis & evaluation of primary and secondary sources. **Half Term 2:** Knowledge: Units 1 & 2: Democracy & Dictatorship. The mid-Tudor Crisis. Skills: Short and Long essay writing. Analysis & evaluation of primary and secondary sources. **Introduction to Historiography and the NEA.**
Geography	Students are learning: **Half Term 1:** Knowledge: Units – Water and Carbon and Natural Hazards, Skills: Focus on short and mid tariff exam questions and responses, use of data and resources and evaluating geographical articles. **Half Term 2:** Knowledge Units - Water and Carbon and Natural Hazards Skills: Focus on responding to 20 mark exam questions. **Introduction to the NEA**
French	Students are developing their reading, writing, speaking and listening skills in the following topics: **Families and Citizenship** Grammar points covered: regular and irregular verbs in the present tense, the future and immediate future, interrogatives. **Education and employment opportunities** Grammar points to be covered: definite and indefinite articles, regular and irregular perfect tense, position and agreement of adjectives; using pronouns including direct and indirect objects.

Computer Science	Students are learning: **Half Term 1:** - HTML - CSS and JavaScript - Unit 11 Programming Techniques. **Half Term 2:** - Exchanging data: - Data compression - Database concepts relational database - SQL - Transaction Processing
IT	**Students are learning:** **Unit 1: Fundamentals of IT** Students are developing theory knowledge focusing on introductory, foundation concepts of Information technologies. They will be sitting an official exam after the Christmas break in the January series. **Half Term 1:** LO1: Computer Hardware LO2: Computer software LO3: Networks & Systems **Half Term 2:** LO4: Employability & Communication Skills LO5: Issues and Security
Art	Students will be learning: **Half Term 1: Formal Elements Skills Development** Students will explore the Formal Elements of Art through studying Still Life. They will develop their skills in a wide range of drawing mediums including pencil, charcoal, pen and ink. They will research Still Life artists and do an oil painting of a still life arrangement from direct observation.

	Half Term 2: Themed Work 'Identity' Students will produce a broad range of research work around this theme. They will be using photography to explore portraiture and their home environments. Practical work will be based around the subject matter they choose to explore within this theme. They will experiment with 'Chiarascuro' and be encouraged to work on larger scale pieces of work.
Graphics	Students will be learning: **Theme: Myths and Legends** Students will begin to conduct a practical investigation, into an idea, issue, concept or theme, supported by written material. The specific focus of the investigation is identified independently by the student and must lead to a developed project of work, usually through the use of a personal sketchbook. Students will develop a coherent, in-depth study that demonstrates the their ability to construct and develop a sustained line of reasoning from an initial starting point to a final realisation. The investigation must show clear development from initial intentions to the final outcome or outcomes. It must include evidence of the student's ability to research and develop ideas and relate their work in meaningful ways to relevant critical/contextual materials. The investigation must be informed by an aspect of contemporary or past practice of artists, photographers, designers or craftspeople. Students will be exploring advertising, illustration, branding and information design, whilst being inspired by contemporary and historical artists and designers. Students will spend ample time experimenting with a range of media.
PE	Students will be learning: **Anatomy and Physiology** - Musculo-skeletal system - Cardiovascular system - Respiratory system **Sport and Society** - Emergence and evolution of modern sport - Sport in the 21st Century - Global Sporting Events **Skill Acquisition** - Classification of skill - Types and methods of practice - Transfer of skill - Learning theories - Stages of learning - Guidance and feedback

Media	**Half Term 1 and 2: Advertising and marketing** Students will cover a range of marketing and advertising texts from a broad range of time periods, genres, and products. In this section of the course students will cover: - Media Language - Audience - Representation - Film Industry
Dance	Students are learning: **Half Term 1:** - How to keep fit as a dancer and will develop a personal fitness plan - Study a range of different techniques including Cunningham, Graham and Ballet - History of Modern Dance **Half Term 2:** - The context of Modern Dance in relation to Rambert Dance company 1966-2002 - The context of The Independent Dance Scene 2000- Current
Drama	**Half Term 1:** Students are learning Stanislavski's method and how to apply this to a given text. This prepares students well for the exploration of texts 1 and 2 (Comp 3) in which students complete a group exploration and a monologue exploration. These are then workshopped to an audience. **Half Term 2:** Students will learn how to reflect, evaluate and analyse the process showing whilst showing their understanding of the social and historical context of the play. This will form Part 1 and Part 2 of Reflective reports.

Music	**Half Term 1:** Students are learning: - Revising prior knowledge of and improving Music Theory – specifically notation reading, chords, keys, cadences and melodic notes - The Development of the Symphony – 1750-1820 **Half Term 2:** Students are learning: - Continuing to revise Music Theory – answering exam style questions and putting this knowledge into practise when analysing music. - Start to study the set work – looking at Movement 1 of Mendelssohn's Italian Symphony. - Students will start to plan and create initial ideas for their "Free" Composition
Health and Social Care	**Half Term 1 and 2:** Students are learning about: **Human Lifespan and development** In this unit students will be introduced to the biological, psychological and sociological theories associated with human lifespan development. They will be investigating all areas of development (PIES- Physical, Intellectual. Emotional and Social)across an individual's lifespan) Looking at factors that affect development such as the environment and genetic inheritance and consider the positive and negative influence these have on development including self-concept. Students will be exploring the physical effects of ageing and the theories that help to explain psychological changes.
	Half Term 1: Students are learning to understand sociological theories and concepts. These include: • Feminism • Marxism • Functionalism • Realism • Socialisation • culture and identity

Sociology	• Differentiation • Power and stratification Students will also practise exam technique with a focus on 10 mark exam questions. **Half Term 2:** Students are learning to understand sociological explanations of the education system. These include: • Role and function of the education system. • Differential achievement. Students will also practise exam technique with a focus on 10 mark exam questions.
Business	**Students are learning:** **Features of business** • Investigating a private sector business and a charity. This includes: • Ownership • Liability • Sector. • Stakeholders. • Business communication • Structure • Organisation • Aims & Objectives. **Business environment** • PESTLE analysis • Market structure • P.E.D • SWOT • SC's • Porters five forces • Pricing strategies. **Role of Innovation**

	• Innovation - Risks/Benefits • Enterprises - Influences. **Half Term 1:** Students will be completing: **Coursework Unit 1. This includes:** • Features of business • Knowledge-ownership/liability/sector • Stakeholders • Business communication • Structure • Organisation • Aims and objectives
Psychology	Students will be learning about research methods, scientific processes and data usage techniques. This will include: • Experimental method • Observational techniques • Self-report techniques • Content analysis • Case studies. Students will learn about social influence. This will include: • Types of conformity • Conformity to social roles • Explanations for obedience • Explanations of resistance to social influence, including social support and locus of control. • Minority influence including reference to consistency, commitment and flexibility. • The role of social influence processes in social change. **Students will learn about Psychopathology.**

	This will include: • Definitions of abnormality • The behavioural, emotional and cognitive characteristics of phobias, depression and • obsessive-compulsive disorder (OCD). • The behavioural approach to explaining and treating phobias. • The cognitive approach to explaining and treating depression. • The biological approach to explaining and treating OCD