Curriculum Summary – What are Y9 learning in Autumn 2?

Subject	What are students learning?
Art	Students will learn key drawing and painting skills on the theme of insects, exploring pencil tone, stippling, watercolour painting and acrylic painting onto a textured surface. They will learn about tonal value and different ways to record it alongside colour blending and paint handling skills.
Biology	Students will continue to work through the Cell Biology module, with a focus on stem cells, the cell cycle and mitosis, and transport across membranes (diffusion, active transport and osmosis).
Chemistry	Students will learn about the modern atomic model and periodic table and the history of how they were developed.
Computing / ICT	Students will continue to learn how images are represented in binary and then progress to how sounds are represented in binary. They will have the opportunity to edit some images and sounds to see the changes reflected in the binary representation as well as explore some of the ethical questions around digital manipulation.
Design and Technology	Students will learn about Product Analysis, corporate imaging, Isometric Sketching, 2D CAD, Model making and Prototyping, Initial Sketching, Writing a Specification.
Drama	Students will be studying 'An Inspector Calls', linking the text to performance skills, devising, and wider theatre
English	Students will learn about dystopian fiction in their language lessons and will develop comprehension skills and their written communication, with a particular focus on narrative and descriptive writing. They will also study 'Animal Farm' in their literature lessons, exploring the importance of texts in context and the links to the allegory.
Geography	Students will learn about natural hazards and the causes and consequences of tectonic hazards. They will develop skills in data interpretation and decision making.
History	Students will learn about the nature of warfare in World War One, the Russian revolution and the immediate aftermath of World War One including the Treaty of Versailles. They will develop their skills in evaluating sources and producing extended writing judging the relative significance of causes and consequences.

Mathematics	Students will be studying basic algebra skills, working with fractions and collecting and representing data. They will be developing skills in problem solving and communicating mathematically.
MFL - French	Students will learn vocabulary and structures which will let them describe past and future visits to a variety of destinations, whilst building in detail using phrases from their first topic. They will continue to build listening, reading, speaking and writing skills, with an emphasis on extended texts and accurate verbs.
Music	Students will learn about musical notation and keyboards. They will be working on ensemble singing and keyboard performances.
Physical Education	Year 9 girls will be developing core skills in netball, including passing, catching, shooting, evasion and footwork. They will apply these in small-sided games, developing their understanding of tactics, rules, fitness, safety and sportsmanship. Y9 boys will be swimming, developing their technique in front crawl, back crawl and breaststroke through teacher-led activities and peer coaching. They will also develop water safety and personal survival skills through the internal Personal Survival Award.
Physics	Students will learn about motion by the end of the Autumn term, developing their understanding of speed, stopping distances and the use of equations to describe motion.
RE /PSHCE	Y9 students will continue exploring Human Rights and PSHE, focusing on discrimination, prejudice, poverty and human trafficking.
Modelled Reading – Form time.	Students will be reading extracts from a range of texts as part of our modelled reading programme during form time. These include: • *On Sledge and Horseback to Outcast Siberian Lepers* by Kate Marsden • *The Conspirator's Tourist: Travels Through a Strange World* by Dom Joly • *The First Men on the Moon* by Neil Armstrong and Buzz Aldrin • *The Cruelest Journey* by Kira Salak • *Mary Seacole's Autobiography* by Mary Seacole • *Some Desperate Glory: The World War I Diary of a British Officer* by Edwin Campion Vaughan • *Touching the Void* by Joe Simpson and Simon Yates