

Redbridge Alternative Provision - Year 8: Spring 2.1

English	Maths	Science
<p>In English this half term students will be studying the 'Whodunnit' unit. This unit will consist of organising information and ideas clearly in order to determine outcome. Tasks will range from students acting as detectives in order to solve mysteries to identify clues in text. The unit will conclude with students writing an information article on how they managed to solve the mystery. Students will be reading a variety of non-fiction and fiction texts such as: newspaper articles and relevant case studies. The focus will be on retrieval, inference and clarifying.</p>	<p>In Maths this half term, students will develop their understanding of decimals, rounding, and ratio. They will practise ordering decimals, rounding to decimal places and significant figures, and using place value in calculations. Students will solve problems involving all four operations with decimals, including multiplying and dividing by 0.1 and 0.01. They will also explore ratios involving decimals and apply these in real-life contexts. Throughout the unit, students will make connections to estimation, inverse operations, and proportional reasoning, strengthening their fluency, accuracy, and problem-solving skills. This learning will culminate in a review and assessment at the end of the unit.</p>	<p>In Science this half term students will study variation, adaptation, and evolution alongside magnetism. They will explore species, populations, and the influence of biotic and abiotic factors on communities. Students will investigate DNA structure, genetic variation, and mutations, comparing artificial selection, inbreeding, and natural selection to explain evolution and speciation. They will also examine causes of extinction and adaptations of extremophiles. The focus then moves to magnetism, where students will learn about permanent magnets, poles, and magnetic fields. They will study induced magnetism, current-carrying wires, and how electromagnets are constructed and strengthened. Practical investigations will explore electromagnetism, before students consider Earth's magnetic field and its importance.</p>
PSHE	Art	PE
<p>In PSHE this half term we will explore diversity, prejudice, and bullying, focusing on discrimination in all its forms, including: racism, religious discrimination, disability, sexism, homophobia, biphobia and transphobia. Students will explore influence, including group-think, learning skills to support managing influence around beliefs and persuasion. Students will then focus on racism, gender identity, sexuality, and religious discrimination, learning how to challenge such behaviours through improved understanding of self-worth and skills of empathy and assertion.</p>	<p>In Art this half term students will be learning about balance, contrast, and pattern in compositions. They will design symmetrical and asymmetrical artworks, research and record cultural symbols from the Day of the Dead, and create detailed sugar skull designs using colour pencil techniques. Students will apply colour schemes, patterns, and stylisation to develop a final mask design with careful attention to proportion, decoration, and visual balance.</p>	<p>In PE this half term students will further develop areas of their fitness and master key table tennis skills. They will engage in various fitness activities aimed at enhancing cardiovascular endurance, muscular strength, and flexibility, laying a strong foundation for overall physical fitness and well-being. Simultaneously, students will immerse themselves in the intricacies of table tennis, continuing to refine their techniques in bat control, footwork, and shot accuracy, while also deepening their understanding of game strategies and tactics. By combining fitness training with table tennis drills and gameplay, students will not only improve their physical fitness but also develop hand-eye co-ordination, focus, and sportsmanship essential for success both on and off the table.</p>
Geography	Food Technology	History
<p>In Geography this half term students will be studying the topic 'One World, Many People: How Are Populations Changing?' They will define what population means and explore how it is measured. Students will explore population distribution and identify where the world's biggest populations are found. Students will analyse population patterns and understand how the population of a country changes as it develops. They will interpret population data to predict change and investigate how countries attempt population control. Finally, students will explore what is meant by migration.</p>	<p>In Food Technology this half term, students will assess the environmental impact of food products by analysing packaging, production methods, and waste, and suggest eco-friendly alternatives. They will compare renewable and non-renewable energy sources, focusing on carbon emissions, resource depletion, and long-term effects on the environment. Students will investigate recycling, composting, and waste-to-energy conversion methods and evaluate their effectiveness in reducing harm. They will explore how everyday decisions, including food, clothing, and plastic use, impact the environment and identify ways to make more sustainable, eco-friendly choices.</p>	<p>In History this half term, students will be studying 'The Industrial Revolution'. Students will begin by exploring what Britain was like in the mid-eighteenth century. Following this, students will examine how and why machines changed the way goods were made in Britain forever. This knowledge will then be used to explain how factories caused the population of towns to increase. Students will investigate what it was like to work in some of Britain's first factories. Finally, students will explain why coal was called 'black gold'.</p>