TERERAI TRENT SCHOOLS

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KEY CURRICULUM SUBJECTS

1. MATHEMATICS

Mathematics is a fundamental subject that nurtures critical thinking and problem-solving skills, which are essential for success in both university and various career paths, especially within STEM fields. Our mathematics curriculum includes Algebra 1, Geometry, and Algebra 2, with additional opportunities for students to progress to pre-calculus, statistics, and calculus. We take great pride in our robust mathematics program, which lays a strong foundation for understanding a wide range of academic subjects and plays a crucial role in driving modern technological and scientific advancements.

2. CHEMISTRY

The chemistry curriculum is carefully structured as a fundamental science course that explores matter, its properties, composition, structure, and the changes it goes through. Major topics include atomic structure, the periodic table, chemical reactions, and stoichiometry. This course requires strong skills in math and problem-solving, supported by hands-on lab work that involves students in real-world situations and scientific concepts.

3. PHYSICS

A Physics curriculum has been designed as a fundamental science program focused on developing students' analytical and problem-solving skills, which are essential for success in various areas of life and career paths, especially in STEM fields. The curriculum includes key topics such as forces, motion, energy, electricity, magnetism, and waves, giving students a solid understanding of the basic principles that govern the physical universe.

4. ENGLISH

An English curriculum has been thoughtfully developed as a core subject that requires strong reading, writing, speaking, and listening skills, cultivated through a comprehensive exploration of literature and language. The curriculum systematically covers a variety of writing styles, literary analysis, grammar, and research techniques. This approach not only builds a solid foundation for success in other subjects but also prepares students for their future careers by enhancing critical thinking and communication skills. Mastery of these skills is vital for both personal and professional growth.

5. FRENCH

A French curriculum has been developed to provide a comprehensive approach to learning the language and its rich cultural background. This curriculum emphasizes the development of all four language skills—listening, speaking, reading, and writing—ultimately equipping students with essential skills and opening many opportunities in both education and the professional world.

6. DESIGN AND TECHNOLOGY (D&T)

Design and Technology (D&T) is a vital subject that develops students' innovation and problem-solving skills through a structured creative design process. Students will gain hands-on experience with a range of tools, materials, and technologies, enabling them to design and build functional products and systems. This discipline is designed not only to encourage critical thinking and creativity but also to enhance students' understanding of how design influences society and the environment. Ultimately, D&T prepares students for successful careers in both creative and technical fields.

7. COMPUTING

The computing curriculum was designed to focus on computational thinking, problem-solving, programming, and a thorough understanding of computer systems. It includes two separate pathways: computer studies for O-Level students and Computer Science for A-Level students. By mastering these subjects, students acquire essential foundational knowledge that is crucial for higher education and effectively navigating today’s digital environment. This curriculum highlights key skills such as logical reasoning, abstraction, collaboration, and digital citizenship, all of which are essential for success in the modern world.

8. ART AND CRAFT

Art and craft are offered as a key part of the curriculum, empowering students to apply artistic and design principles in creating both 2D and 3D works. This subject is vital for fostering creativity, critical thinking, and self-expression. Students will build crucial visual literacy and problem-solving skills, preparing them for future studies in the arts and other fields where creative thinking is essential. The course offers hands-on experience with a variety of media, while also promoting cultural understanding and emotional growth. Participating in art and craft is not only beneficial; it is a core part of a well-rounded education.

9. CODING AND ROBOTICS

Coding and robotics have been incorporated into the curriculum to give students hands-on experience with technology. This integration helps develop key skills for the digital economy, including critical thinking, problem-solving, and teamwork. Through robotics, students can experiment, design, and develop solutions, bringing their creativity to life in real projects. As they design, build, and program physical robots, abstract coding ideas become more transparent and easier to understand. This teaching approach prepares students for future careers in STEM fields and builds essential life skills, such as perseverance and creativity.