

## Lead Teacher of STEM

### Key Responsibilities:

#### Broad and Ambitious Curriculum:

- Effectively contribute to the development of a broad and ambitious STEM curriculum aligned with national standards across the all-through
- Integrate innovative teaching strategies and resources to enhance student engagement and understanding in STEM subjects.
- Continuously review and update the curriculum to ensure it remains relevant and meets the needs of students

#### Profile and Engagement with STEM:

- Develop a strong profile and engagement with STEM subjects within and beyond the curriculum across the all-through, including through displays and social media
- Foster a culture of enthusiasm and curiosity towards STEM through engaging and interactive teaching methods across the all-through
- Promote and lead extracurricular activities and events that generate student interest and involvement in STEM across the all-through

#### Links with Local Businesses:

- Establish and maintain strong partnerships with local businesses and industries related to STEM.
- Collaborate with businesses to provide students with real-world experiences, internships, and work placements
- Identify age-appropriate opportunities for guest speakers, industry visits, and projects that align with the STEM curriculum and benefit children across the all-through

#### Inter-departmental Working:

- Foster best practices in inter-departmental collaboration to enhance the integration of STEM subjects across the curriculum.
- Collaborate with other subject leads and teachers to develop cross-curricular projects and initiatives
- Share knowledge, resources, and effective teaching strategies with colleagues to promote excellence in teaching and learning.

#### Enrichment Experiences:

- Organise and deliver enrichment experiences that generate engagement, promote knowledge, and foster a sense of discovery in STEM. Develop and implement strategies to increase students' practical and employability skills through STEM-related activities

#### Leadership Skills and Engagement:

- Foster the development of students' leadership skills through a range of STEM clubs, projects, and extracurricular initiatives across the all-through
- Encourage students to take on leadership roles within STEM-related activities and mentor their peers

- Monitor and evaluate student engagement levels in STEM, identifying areas for improvement and implementing targeted strategies
- Liaise with Department Heads and Phase Leaders to coordinate and plan the implementation of the strategy

#### **Increasing A-Level Participation and STEM-based post-KS5 destinations:**

- Work towards increasing the number of students engaging in STEM at KS4, KS5 and post-18 -
- Provide guidance and support to students in making informed decisions about pursuing STEM subjects at advanced levels
- Collaborate with relevant departments to enhance the transition from secondary to post-secondary STEM education

#### **Promoting Diversity and Inclusion across the all-through:**

- Implement strategies to increase the number of girls and students from disadvantaged backgrounds (PP) participating in STEM
- Create an inclusive and supportive learning environment that encourages diverse student representation in STEM subjects
- Provide tailored support and resources to address potential barriers and promote equal opportunities for all students

#### **Transferability of Skills:**

- Help students understand the transferability of STEM skills across different disciplines and real-world contexts
- Promote interdisciplinary learning and highlight the value of STEM skills in various careers and industries
- Facilitate connections between STEM subjects and other subjects to enhance students' holistic understanding