

TEACHER OF DESIGN & TECHNOLOGY

JOB DESCRIPTION

ABOUT JOHN LYON

John Lyon is an academically selective independent day school, based in Harrow-on-the-Hill in North West London. Having educated boys from Harrow and surrounding areas since 1876, John Lyon will welcome its first girls as pupils from September 2021. The School is also moving from being a senior school to an all through 2-18 school with nursery, thanks to a 2020 coming together with Quainton Hall School in central Harrow.

Academic excellence is at the very heart of what pupils who study here seek to achieve. Pupils' academic standards and personal development were both rated the highest possible 'excellent' in our recent school inspection.

'Pupils recognise and appreciate that staff have high expectations and allow them sufficient independence to develop self-control and self-motivation.'

'The school community transcends cultural difference and exudes an ethos of inclusivity through natural acceptance.'

'Pupils show a strong aptitude for reading and write effectively for a wide range of purposes.'

'A culture where mathematical prowess is celebrated and revered.'

'Pupils achieve superb results in Sports, Performing and Creative Arts'

ISI Inspection Report, January 2020

With the opportunity to explore this broad curriculum and gain a solid grounding in all the major academic subjects, pupils work alongside dedicated teachers to develop learning skills, creativity and the ability to fully apply themselves in all areas of life. They perform well from the point they join and go on to achieve excellent results in public examinations at GCSE and A-Level. Most students are rewarded for their hard work by gaining places at leading UK universities, before moving on into the workplace in a huge and varied range of valued professions.

John Lyon pupils also gain from their time outside the classroom. The School has a strong reputation for opportunities and success in Music, Art, Drama and Sport. Add to this an exciting Co-Curricular Programme focusing on a sense of community, achievement and wellbeing, a range of more than 100 extra-curricular activities, and pastoral care that is second to none, a John Lyon education is designed to nurture high-achieving and happy children.

The School campus is spread across six buildings in Harrow-on-the-Hill and is part of John Lyon's Foundation. We have a clear set of values that are vital to our community. These values shape who we are, what we do and how we do it.



AMBITION



EXCELLENCE



INNOVATION



RESOLVE



HERITAGE



COMMUNITY



CREATIVITY



ENQUIRY

THE DEPARTMENT

STEAM is a growing and popular subject at John Lyon. We are lucky to have a brand-new STEAM Makerspace and STEAM Laboratory, enabling us to deliver a high-quality STEAM courses. We have designed a bespoke STEAM curriculum that focuses on developing students' ability to solve real-life problems with creativity and innovation. As part of the STEAM curriculum, students learn skills such as soldering, 3D modelling, 3D printing, laser cutting and Robotics. The STEAM Department provides a lot of popular extra-curricular clubs such as Robotics and laser cutting, and pupils are supported with entries into national competitions.

STEAM has been offered to all KS3 pupils as a timetabled curriculum subject for the last four years. Due to pupil enthusiasm and the benefit we have seen in teaching STEAM skills to pupils, we are expanding our provision to offer STEAM as a curriculum subject to Year 9 pupils from September 2021. We will offer Design and Technology as a GCSE from September 2022 which is a significant and exciting step for the School.

There are additional opportunities for Sixth Form boys to develop their skills on residential visits to CERN and to complete Biology fieldwork at Flatford Mill. As well as taking part in a multitude of Science and STEAM focussed events in the School calendar, pupils are able to learn from visits to The Science Museum, Kew Gardens, London Zoo, Science Live (GCSE), Science in Action (A-Level), Rutherford Appleton Laboratories and Thorpe Park STEM Fair. We are also fortunate to have a variety of visiting speakers who work with our pupils. Recent guest speakers include Lord Robert Winston, Prof Mischa Dohler (Fellow of IEE, RAE, RSA and IET), and Jeremy Curtis (Head of Education and Skills at the UK Space Agency).

The development and growth of STEAM is a key area of development for John Lyon and plans are underway for additional state of the art DT/STEAM facilities. We are looking for a creative, motivated and experienced DT teacher to help shape this department in its new exciting phase.

PRINCIPAL RESPONSIBILITIES

A Teacher of Design & Technology reports to the Head of STEAM and is specifically responsible for the learning and teaching of STEAM and Design & Technology, ensuring that each pupil is positively challenged and encouraged to develop their potential to the full. Teachers will sometimes teach in departments beyond that of their specialist subject according to their experience and qualifications.

SPECIFIC RESPONSIBILITIES

- Planning and teaching lessons to the curriculum in a workshop in both a classroom and workshop environment;
- Teaching with technologies such as 3D Printing, Laser cutting, robotics and CAD/CAM;
- writing schemes of work and preparing innovative lessons;
- Ensuring that assessment is both regular and thorough and that full records of pupils are kept;
- Undertaking development and training in the department and the school;
- Attending regular departmental meetings, and other meetings as appropriate with the Head of Department and Senior Teacher (Staff);
- Cooperating with other Departments in the School;
- Cooperating with Department members;
- Liaising with Heads of Year and the Head of Department in matters concerned with pupil discipline and behaviour;
- Ensuring Health and Safety and Child Protection guidelines are followed;
- Creating and maintaining a stimulating environment in departmental rooms;
- Implementing all School policies, and all Departmental policies;
- Contributing to the spiritual, moral, social and cultural development of pupils;
- Completing any other duties that may be reasonably asked by the Head of Department.

ADDITIONAL SPECIFIC RESPONSIBILITIES

- Participating in and assisting with the organisation of trips and activities to enhance the learning of pupils within the School;
- To be available as a tutor to an assigned tutor group and to carry out related duties in accordance with the general job description of Form Tutor;
- To stimulate and sustain extra-curricular interest in their subject through clubs and competitions.

GENERAL DUTIES

- To embrace the School's Values and encourage pupils to develop them;
- To carry out a share of supervisory duties and detentions in accordance with published schedules;
- To participate in appropriate meetings with colleagues and parents relative to the above duties;
- To contribute to the PSCE programme when required;
- To attend whole School events e.g. Open Days, Speech Day etc;
- To provide cover and examination assistance as required;

- All staff are required to contribute to the School's Extra-Curricular and Co-Curricular programmes.

It should be noted that a job description is not an exhaustive list of activities, and employees may be asked to carry out other duties commensurate with the grade of the post. The job description may also be amended to take account of changed circumstances, and employees will be consulted if this is necessary.

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PERSON SPECIFICATION FOR ALL TEACHING APPOINTMENTS

In making an appointment at the John Lyon School we look for the person who, at interview and by virtue of their qualifications, best demonstrates that he/she:

- is suitably qualified for the responsibilities of the post;
- has good interpersonal and communication skills with pupils and colleagues;
- has good listening skills and respect for all pupils;
- has the ability to form relationships and to motivate pupils;
- has the ability to generate enthusiasm for the work of the department;
- can demonstrate high standards in the necessary professional competencies required of teachers:
 - *subject knowledge and application;*
 - *classroom management;*
 - *assessment, recording and reporting students' progress;*
 - *teaching effectively throughout age and ability range;*
- has confidence to contribute their own ideas and initiatives to the philosophy of the School;
- is willing to be involved in the wider activities of the School;
- has a practical understanding of administrative demands;
- has a commitment to personal and professional development.

The post holder's responsibility for promoting and safeguarding the welfare of children and young persons for whom s/he is responsible, or with whom s/he comes into contact will be to adhere to and ensure compliance with the School's Child Protection Policy Statement at all times. If, in the course of carrying out the duties of the post the post holder becomes aware of any actual or potential risks to the safety or welfare of children in the school s/he must report any concerns to the School's Designated Safeguarding Lead.