

SCIENCE MUSEUM GROUP

HOW MUSEUMS SUPPORT STEM LEARNING AND ENGAGEMENT

A visit to a museum can fuel curiosity and interest in science and maths – and much more, creating memories that will last a lifetime. With inspiring stories, authentic objects and hands-on experiences, museums are trusted sources of knowledge and rich learning resources which offer many enrichment and personal development opportunities.

Here we share some of the opportunities for science, technology, engineering and maths (STEM) engagement in museums...

SHOW THE APPLICATION OF SCIENCE, TECHNOLOGY, ENGINEERING AND MATHS

Throughout museums are real-world examples of how STEM has been put into action. By linking and making connections to science topics and principles that are taught in the classroom, you can explore first-hand how these applications open the doors to many different jobs and incredible opportunities.

HIGHLIGHT THE RELEVANCE AND VALUE OF STEM TO PEOPLES LIVES

STEM is integral to our lives today and in the future, from the clothes we wear to the way we travel and the food we eat. By connecting the past, present and future of our world, museums show how an understanding of STEM – alongside art and design – has improved and even transformed our everyday lives.

USE AND DEVELOP STEM SKILLS

From making observations and asking questions, to creative thinking and problem-solving, a museum visit provides a unique environment to use and develop scientific and mathematical skills. Museum experiences are designed to encourage active participation and social interaction, helping people learn in creative and exciting ways.

INTRODUCE HOW PEOPLE HAVE SHAPED STEM

Science and technology can be found in everything we use and involve the work of hundreds of people, all bringing their own skills and effort to make things happen. Behind every museum object is a story which reveals the imagination and creativity, alongside the breadth and diversity, of the people who shaped it and the lives of those who experienced such innovation.

SPARK CONVERSATIONS ABOUT STEM

Museum visits can inspire, challenge and stimulate us. They give people a shared experience which can spark and fuel great conversations, allowing them to explore and discuss issues, helping them to feel more personally connected and comfortable with a topic. This can lead to a journey of discovery that will last longer than the visit itself

