

Theory of Change

Beneficiary Needs

Primary school children in Tower Hamlets not excited about STEM subjects

STEM subjects can be difficult to teach and parents not always able to help

Schools have little budget to offer 'hands on', extra-curricular or enrichment – top decile area of deprivation

Low visibility of science and technology in action – not seen as relevant subject choice

Few role models in families or friendship groups with STEM-related jobs

Low levels of engagement with nature – inner city, urban environment

Setpoint Activities

'Hands On' workshops at the Soanes Centre

- Bring subjects alive
- Show science in context
- Complement classroom teaching
- Aligned to national curriculum
- Provide 'hooks' for classroom teaching
- Affordable out-of-classroom experience
- Delivered in natural woodland setting

'Outreach' workshops in schools (primary and secondary)

- Pre-designed or bespoke content
- Delivered by STEM experts
- Aligned to national curriculum
- Contextualise STEM careers

Other Soanes Centre & Cemetery Park offerings

- Teacher training sessions
- Private hire of classroom
- Wellbeing programmes
- Bushcraft & nature education

Change Mechanisms

Children excited about getting 'stuck in' to science

Scientific curiosity is kindled

New appreciation of nature and the world around us

Understanding of human impact on the world

Rewarding experience of individual discovery, making or classifying

More enjoyment of classroom teaching

Desire to know more about STEM

Comfort in natural environment (fears expelled)

Appreciation of Cemetery Park as local asset (allowed to be there)

Primary Outcomes

Children more engaged in follow on projects

STEM subjects have more relevance

Core skills reinforced (eg, recording and classification of findings)

Improved understanding and interest in how things work

Ongoing usage of park for leisure and wellbeing (with friends & family)

Cognitive and wellbeing benefits of learning in different setting

Primary school teachers (usually not specialists) benefit from specialist STEM resources

Secondary Outcomes

Children
 Better attainment in STEM subjects
 Belief that STEM careers are exciting and attainable
 Improved uptake of STEM in:
 •GCSE choices
 •A level choices
 •Degree or training courses
 •Career choices

Teachers
 More engaged classes
 Discovery of children's latent STEM talent

Universities & Employers
 Stronger and more diverse STEM talent 'pipeline'
 Opportunity to engage early through Setpoint outreach delivery