

K'Nex Challenge

STREAM Portfolio

 **LOCATION:** On school site
  **DURATION:** 1/2 day x3 per year
  **GROUP SIZE:** 40

About the programme

Facilitated by STEM Ambassadors from various industries, our K'Nex Challenge introduces students to the exciting world of engineering and technology. The challenge teaches the essential skills for progression within STEM subjects through the whole invent, design and build process.

The programme supports core subject learning through exploring engineering concepts, applying engineering skills in a hands-on environment and giving young people meaningful encounters with key employers in the sector. There will be three different challenges that will take place over the year. This means that they can be matched up to meet the needs of the curriculum at any time in the year.

Background



K'Nex is ideal as a first employer-led activity for primary school age pupils with all the resources provided at a low cost. With minimal disruption to teaching staff, we will supply a STEM Ambassador to school with all resources to deliver the activity.

Focus areas

- Developing a greater understanding of STEM.
- Working as an effective team.
- Using creativity and logic to solve problems.
- Working under pressure.
- Meaningful engagement with industry professionals.

Programme aims

- To discover and embed STEM in a fun and engaging context; growing awareness, engagement and aspiration.
- Develop personal and social skills in STEM careers.
- To design and consider alternative solutions to complex problems using STEM.
- To understand the importance of working effectively within given constraints.
- To engage with employers through STEM Ambassadors.

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| Skills Development | Teamwork Communication Teamwork | Critical Thinking Creativity Numerical Reasoning | Problem Solving Design Manual Dexterity |
| Curriculum Links | Science Design & Technology Art & Design | Mathematics | |
| Suitable for |  | | |
| Ofsted or Educational Priority | | Gatsby Benchmarks  | |

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