	Fixperts use an iterative approach to design products that solve real-world problems, understanding how Design & Technology impacts individuals. How can Fixperts be used to address the D&T Curriculum?
Purpose	 Design and make products that solve real and relevant problems Work within different contexts Consider others' needs, wants and values Draw on learning in maths, science, engineering, computing and art Learn how to take risks with their ideas Become resourceful, innovative, enterprising and capable citizens
Aims	 Develop creative, technical and practical expertise Participate confidently and successfully in an increasingly technological world Apply knowledge, understanding and skills to design and make high-quality prototypes and products for a wide range of users Critique, evaluate and test their ideas and products
Designing and making skills	 Identify and solve their own design problems Use an iterative approach to designing Communicate design ideas using sketches, modelling, oral and digital presentations Test, evaluate and refine their ideas, taking into account the views of intended users Develop practical making skills
Knowledge and understanding	 Apply knowledge of material properties to achieve functioning solutions Design for a range of users, including inclusive design Understand D&T's impact on individuals, and the impact of good and bad design Learn about prosocial design and the responsibilities of designers Use digital technologies for real and relatable applications Calculate anthropometric data, dimensions, angles, mass and volume, or costings Learn how scientific knowledge is used in designing and making
	DeliveryOpportunities-Flexible age rangeIn or out of the classroom-Teacher training opportunities

Adaptable to suit facilities

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available

- Teacher training opportunities
- -Competitions

	Fixperts use an engineering mindset to design products that solve real-world problems, understanding how new technologies, science and maths are essential components of the process. How can Fixperts be used to progress the STEM Vision?
STEM Learning objective: Aspirations	 For learners from all background with all abilities Learners have the opportunity to become real-life designers Fix Films provide diverse role models Prepares learners for STEM futures
STEM Learning objective: Careers	 Fixperts work with 'live clients' [Fix Partners] Accountable to someone beyond the teacher Develop communication skills Develop organisation and project management skills Develop independence and confidence Gives insight into professional expectations
STEM Learning objective: Skills	 Practice all areas of STEM Learn how scientific knowledge is used for real-world applications Use an iterative approach to designing Develop practical making skills Use digital technologies for real and relatable applications Apply an engineering mindset to problem-solving Calculate anthropometric data, dimensions, angles, mass and volume, or costings
STEM Learning objective: Community	 Community enterprise Learners interact positively with members of the wider community Demonstrates the benefits of STEM education to your community Showcases how STEM impacts everyday lives in non-industrial applications
	Delivery Opportunities - Flexible age range - Free online resources - In or out of the classroom - Teacher training opportunities

In or out of the classroom

Adaptable to suit facilities

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available

- Teacher training opportunities
- Competitions

Fixperts learn to work with members of the community to solve problems, developing a wide range of transferable skills with life-long benefit. How can Fixperts be used to develop learning, thinking and life skills?

- For learners from all background with all abilities
- Fix Films provide diverse role models
- Accountable to someone beyond the teacher
- Gives insight into professional expectations
- Learners interact positively with members of the wider community

Skills development

- Communication and interpersonal skills
- Teamwork and collaboration
- Organisation and project management skills
- Independence, confidence and self direction
- Creativity and innovative thinking
- Apply critical thinking skills and become a reflective learner
- Learn how to take risks with their ideas and develop resilience
- Participate confidently and successfully in an increasingly technological world
- Develop a social conscious through participating in a community enterprise

Assessment links

- Citizenship
- PSHE
- D&T
- Computing
- Science
- STEM

Delivery

- Flexible age range

available

In or out of the classroomAdaptable to suit facilities

Opportunities

- Free online resources
- Teacher training opportunities
- Competitions

Fixperts for Maker Mindset

	Fixperts demonstrates that anyone can be a maker by adopting the Maker Mindset, providing the opportunity to develop essential skills for the future and benefitting society. How can Fixperts be used to promote the Maker Mindset?
Anyone can be a maker	 Broader access to digital fabrication tools at home, school or in 'makerspaces' means anyone can become a maker Broader access to digital communication tools means people can work together easily Fixperts is suitable for learners from all background with all abilities Fix Films provide diverse role models, including designers, engineers, students, craftspeople and DIYers
Essential skills	 Combines creative problem-solving with hands-on experience Develops fundamental skills for the future of education, workplace and society Critical for tackling both big issues and small problems
Characteristics of a Maker Mindset	 Collaborative working skills Sharing ideas Puts ideas into practice Question use and purpose, creating design with meaning and impact Learn from mistakes

- Consider social and environmental impact of designing and making

Delivery

- Flexible age range

available

In or out of the classroomAdaptable to suit facilities

Opportunities

- Free online resources
- Teacher training opportunities
- Competitions

Fixperts for Science & STEM

Fixperts learn how scientific knowledge is applied and use an engineering mindset to design products that solve real-world problems. They understand that new and traditional technologies cannot be utilised effectively without reference to maths and the sciences.

- Learn about the social and economic implications of science
- Understand the uses and implications of science, today and for the future
- Use the scientific method of enquiry to solve problems
- Apply knowledge of motion and forces
- Apply knowledge of the properties and potential of different materials
- Understand the biology of human needs and limitations

STEM learning objectives

Aspirations:

- For learners from all background with all abilities
- Learners have the opportunity to become real-life designers
- Fix Films provide diverse role models
- Prepares learners for STEM futures

Careers:

- Fixperts work with 'live clients' (Fix Partners)
- Accountable to someone beyond the teacher
- Develop communication skills
- Develop organisation and project management skills
- Develop independence and confidence
- Gives insight into professional expectations

Skills:

- Practice all areas of STEM
- Learn how scientific knowledge is used for real-world applications
- Use an iterative approach to designing
- Develop practical making skills
- Use digital technologies for real and relatable applications
- Apply an engineering mindset to problem-solving
- Calculate anthropometric data, angles, mass and volume, or costings

Community:

- Community enterprise
- Learners interact positively with members of the wider community
- Demonstrates the benefits of STEM education to your community
- Showcases how STEM impacts everyday lives in non-industrial applications

Delivery

- Flexible age range
- In or out of the classroom
- Adaptable to suit facilities available

Opportunities

- Free online resources
 - Teacher training opportunities
 - Competitions