

SEE STEM

IN ACTION

Dynamic, engaging and exhilarating workshops to inspire pupils with STEM

Our Army STEM experts are delighted to offer a range of free STEM workshops for pupils aged 11-14 to help inspire the next generation. School based, curriculum aligned and very hands-on, all workshops have been specifically developed to spark and maintain your pupils' interest in STEM as they begin to consider their future subject and career options. **So why wait?**

FREE

**CURRICULUM
ALIGNED**

HANDS-ON



**OPERATION
DISASTER RELIEF**

Help the Army to deliver aid using
LEGO™ Mind-storm



**OPERATION
ROCKET CAR**

Engineer your record
breaker with our
Rocket Car challenge



**OPERATION
FRONTLINE SCIENCE**

No more labs,
this is Science
for a life outdoors



**OPERATION
WHO'S THE HACKER?**

Can you
complete this
top-secret mission?

INTERESTED?

View our on-demand workshops now at stemview.co.uk
or email bookaworkshop@armystem.co.uk to book a workshop now.



OPERATION DISASTER RELIEF

ACTIVITY LENGTH: 2 - 2.5 hours
IDEAL AGE GROUP: 11-14

STEM skills are vital when the British Army deploys around the world and are never more crucial than when disaster strikes!

In this activity, pupils will join the Army's Engineers, Medics and Logisticians in deploying to a remote part of the world which has been hit by a destructive earthquake. Learning how to build, programme and operate their LEGO™ Mind-storm robot pupils will use their robot to undertake a series of engineering and logistical challenges in order to achieve their mission and deliver life-saving humanitarian aid to the local people.

STEM SKILLS APPLIED:

Programming, Maths, Technology, Engineering

LIFE SKILLS DEVELOPED:

Team Work, Leadership, Critical Thinking, Perseverance



OPERATION FRONTLINE SCIENCE

ACTIVITY LENGTH: 1.5 - 2 hours
IDEAL AGE GROUP: 11-14

The British Army needs the latest kit and equipment in order to operate effectively in some of the toughest conditions in the world.

The curriculum-aligned Frontline Science challenge is designed to encourage pupils, working in small teams, to apply the principles of Physics, Chemistry or Biology in thinking creatively to design new kit and equipment for the Army to use on its future operations.

Each science has a different challenge such as a new hi-tech helmet or healthy energy bar for the Army's ration packs. With some of the Army's current kit and equipment available to support the workshop pupils will get hands-on experience as they consider what characteristics and features their products must have.

STEM SKILLS APPLIED:

Science, Maths

LIFE SKILLS DEVELOPED:

Team Work, Critical Thinking, Perseverance



OPERATION ROCKET CAR

ACTIVITY LENGTH: 2.5 - 3 hours
IDEAL AGE GROUP: 11-14

Set your pupils on an engineering adventure of discovery, where they will explore the incredible possibilities of breaking records – using STEM!

Suitable for all abilities, pupils will learn about rocket cars, their land speed records and the foundational STEM principles behind it before moving on to the challenge of working in teams to design, build and launching their own rocket cars! To be successful, pupils must apply the STEM fundamentals of weight and aerodynamics to their own design. They will be able to record real-time data such as their car's speed and acceleration for analysis in their challenge debrief.

STEM SKILLS APPLIED:

Engineering, Technology

LIFE SKILLS DEVELOPED:

Team Work, Critical Thinking, Perseverance



OPERATION WHO'S THE HACKER?

ACTIVITY LENGTH: 1.5 - 2 hours
IDEAL AGE GROUP: 11-14

Students take on this mission from the Commanding Officer to stop a cyber-attack on the British Army Head Quarters. Pupils will join soldiers from the Royal Signals and Intelligence Corps and analyse the evidence in this top-secret mission.

Pupils must identify which of the five suspects is behind this planned attack to stop the hacker in their trackers to defend confidential documents and protect national security

STEM SKILLS APPLIED:

Maths, Problem Solving, Logic and Reasoning

LIFE SKILLS DEVELOPED:

Working Under Pressure, Critical Thinking and Team Work