

# LEGO Engineering & Assault Course Youth Group Session

After exploring the key features of specialist REME vehicles, on display in the museum, children have a chance to push their skills in this engineering task. Children would be working in small groups of either twos or threes to build working LEGO machines to specific set criteria. Our onsite Assault Course can also be opened for supervised team challenges.

## Proposed sample Timetable

Workshop maximum of 30 Children

Times	Min	Task
10:00 - 10:10	10	Arrival, toilets and Cloakroom
10:10 - 10:15	5	Whole class briefing
10:15 - 10:50	25	Go find
10:50 - 10:55	5	Task briefing
10:55 - 11:45	50	Build and trial devices
11:45 - 12:15	30	Presentation and test
12:15 - 12:25	10	Tidy up
12:25 - 13:00	35	Lunch
13:00 - 13:45	45	Visit the museum & Shop (optional extra)
13:45 - 14:30	45	Assault Course
14:30 - 14:45	15	Goodbye and depart

## Proposed schedule

### Arrival (10 min)

The school group will be greeted by a member of staff on arrival. They will be escorted to the cloakroom, be shown where the toilets and where the group is to gather for the briefing.

### Briefing (5 min)

A member of museum education staff will brief the group. A great chance to welcome the group to the museum and explain what the outcome of the day will be. Before getting into any detail, a safety announcement should be made, highlighting what to do in a fire, etc.

A brief overview of REME and some basic facts about the Corps should then be given. This will help the group gain a context for the day. Again revisit the aims of the group's visit, what they will achieve. If needed a run through of the day's timetable may help speed things up later on as everyone will know what is happening and when.

Focus on electronics within REME and what use they have within the Army. Talk about remote control vehicles. Ask them what sort of roles remote vehicles can have in the Army.

**Go find (25 min)**

In smaller groups the children need to find various devices on display relevant to the task set. They may have a fact sheet to help them pick apart the key elements, power, control, wheels, motors etc.

**Task briefing (5 min)**

Get feedback from the group. Give them their task. Give them a list of parts. Tell them how long they will have to build it. Explain how they will be marked. Point out any other restrictions on the task, as well as any safety issues with tools etc.

**Build and trial (50 min)**

Using the LEGO Education sets the class in their groups need to build their devices. Get them to trial and adapt them as the build progresses. Get the group prepared for the test, at which they will need to make a small presentation about their device and answer some questions.

**Presentation and test (30 min)**

After lunch, each team trial their device. A small presentation about what they built will be needed, along with a quick Q&A. Teams will be mark out of ten in various categories; Team Work, execution of design, task competition etc

**Tidy (10 min)**

Clear their work areas away, this could be done during the build phase and may not be required. A quick feedback on how they did followed by announcing how much they scored.

**Lunch (35 min)**

The Education area will be made available for lunch. Outside seating on our patio is also available. The Crowns Café can provide lunches for an additional fee, please contact us for more information.

**Visit the museum & Shop (45 min)**

Visit the museum as an optional extra to the workshop, which is included in the price. Chance to explore the museum in groups, spending more time in the gallery investigating areas not covered by the morning visit. If desired, the class could also visit the shop in groups.

**Assault Course (45 min)**

The last part of the day the group will have a chance to go on our assault course. A timed team challenge can be set to see which group can get around the assault course in the quickest time. This activity is led by a member of Museum staff and safety equipment will be provided. Groups are advised to bring old shoes with them as it can get muddy. This activity is outside and will not be run in extreme weather.

**Depart (15 min)**

Back in the museum a member of museum staff makes a quick summery of the day and thank the school for coming. Group then gathers positions and leaves for their transport.

## Workshop Fees

Like all workshops run by the REME Museum, this session costs just £5 per child. We charge a surplus of £1 per child for the assault course. We have a minimum charge policy of £50 (£60 with assault course) for groups smaller than 10 which we are happy to deliver to.

## Booking and Contact Details

To make a booking or to seek more information on this or another session, please contact us at [education@rememuseum.org.uk](mailto:education@rememuseum.org.uk) or call 01249 89 4869.

We are happy to deliver this workshop in the above format or amended to suit your outcomes. We are also happy to meet you in person in the Museum and show you where activities will take place free of charge.