

# MARVELLOUS MACHINES!

## Forces in Action on the Railways

Activities to support the teaching of  
**KEY STAGE 2 SCIENCE**  
at the West Shed Museum



### KEY THEMES OF THE SESSION INCLUDE:

**KS2 SCIENCE: Forces and Motion; Materials and their Properties**

**What is a Dynamometer Car and how does it measure forces?**

**How does a steam locomotive work?**

**What forces are acting on a steam locomotive in motion?**

**Handling and interpreting data**

**Do you want your pupils to learn from real historic exhibits in a unique environment?**

**We would love your school to visit the WEST SHED MUSEUM to try out the activities that have been developed as part of a project supported by the Heritage Lottery Fund.**

### What can the West Shed offer your pupils?

- Activities led by museum staff to support National Curriculum Science at Key Stage 2, with links to Maths, History and more.
- A chance to go inside the 1912-built dynamometer car and learn about how it was used to test the speed and strength of steam locomotives on the railways.
- A climb onto the footplate of our static steam locomotive 'Princess Margaret Rose', built in 1935.
- Object handling with railway artefacts.
- A 'Fun Forces' experiment.
- Mini-cinema with short films of steam locomotives in action.
- A comfortable education room for activities and lunch.

### **Where are we?**

The West Shed Museum is located on the Swanwick Junction site of the Midland Railway - Butterley, near Ripley, Derbyshire (please note - we are a separate organisation from the Midland Railway).

**Price:** A day visit involving museum-led activities costs £2 per pupil.

**Enquiries:** For a free Teacher's Pack to find out what the West Shed can offer your school, please contact the Museum Curator:

**Tel:** 01773 743986 **Email:** westshed6233@btconnect.com

**Or visit our website:** WWW.PRCLT.CO.UK