

High Speed Trains

London Transport Museum is looking for **Planners** to be engineers of the future. Can you help us solve the engineering challenge below?

Mott MacDonald* are currently designing a new high speed railway that will connect the north and south of England. Can you design a new high speed train for this railway?

Materials

Ruler
Pens
Paper



Instructions

- Design and draw the inside of your train.**
How would you make your train comfortable and safe for passengers?
How would you make space for busy rush hour crowds and luggage?
How would you make your train accessible to everyone?
- Design and draw the outside of your train.**
What shape does it need to be to travel fast at high speeds?
What materials would you use to make it light, strong and fast?
How can you make your train better for the environment?
How will it be powered?

Find out more

Age	Topic	Time needed
7-11	Engineering	30 min
Skills used		
Problem solving	Designing	Evaluating
*Who are Mott MacDonald?		
Mott MacDonald works on some of the world's largest projects. They are currently designing a high speed railway that will be the backbone of Britain's rail network. Trains will be faster and more reliable, travelling at speeds of up to 225 mph.		
What does it mean to be an engineer?		
Engineers are people who solve problems. They use creativity to plan, fix and dream solutions to improve everyday life. Like an engineer, this activity encourages you to fix a problem and find solutions.		