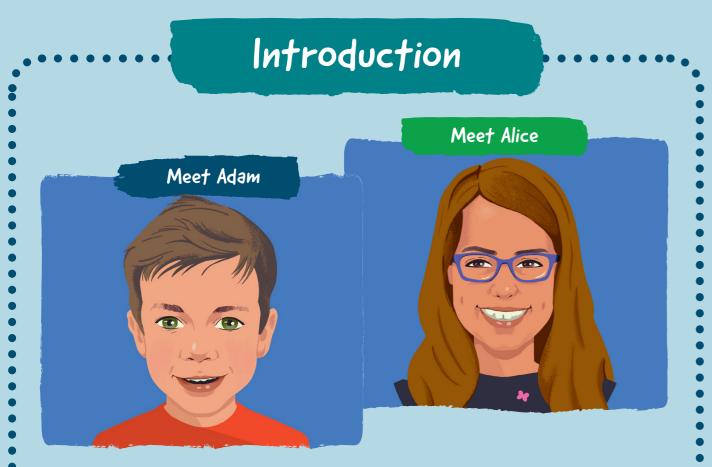
Activity Book

Join Emily the engineer on a rail adventure

> Win a family trip on

EUROSTAR™



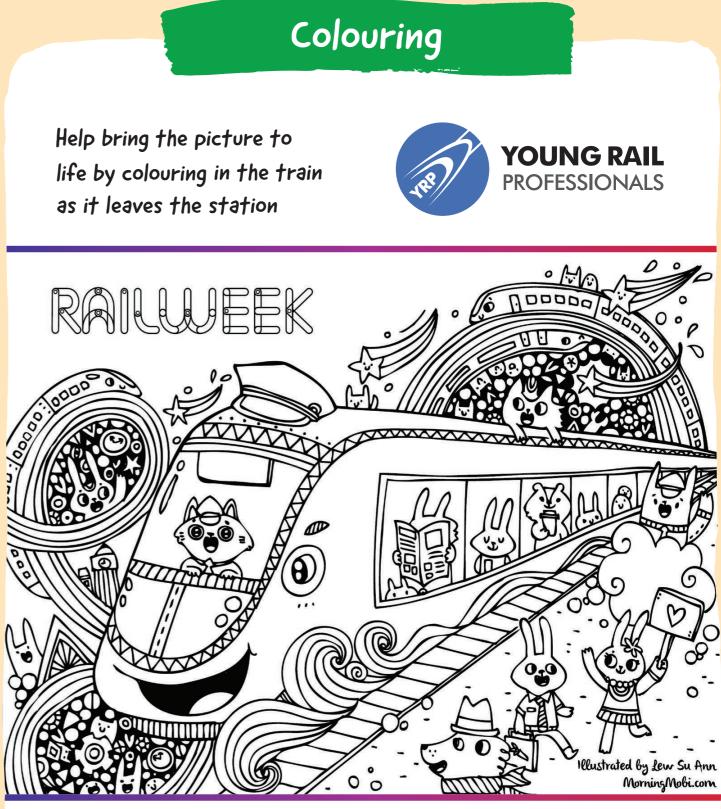
Meet Alice (aged 7) and Adam (aged 6), friends of Emily the Engineer and winners of Network Rail's 'A World Without Women' competition.

For this year's International Women in Engineering Day (2020) they have taken the has invited them to be part of her activity time to research and showcase the work of 2 great female engineers - Dawn Child's (President of WES) and Mary Jackson (Aerospace Engineer).

Emily loved their work so much, that she book! Let's congratulate them on their work and maybe research the impact of a female engineer yourself!

Hi, I'm Emily and I'm an engineer on the railway. In this activity book, we are going to go on a rail adventure to learn about engineering. If you'd like to learnn more then go online at: www.networkrail.co.uk/careers/at-school/ Thanks, Emily







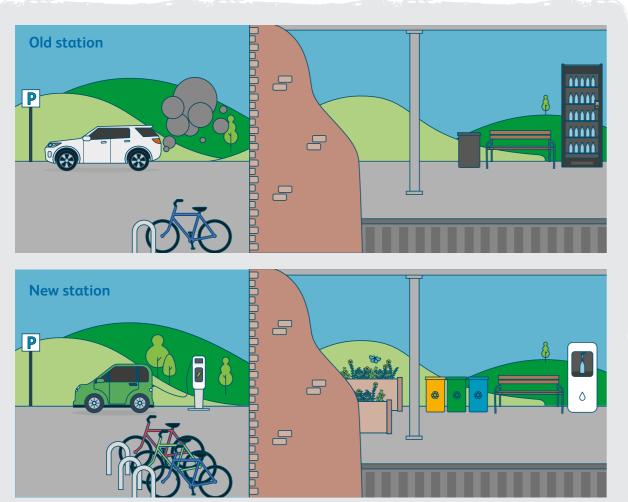
Rail Week celebrates the diverse and rewarding career opportunities available across the rail sector. The dedicated week of activity aims to address the skills shortage in rail-related roles and inspire a generation of young people through a series of virtual events, visits and talks. Find out more at www.railweek.com



Spot the difference

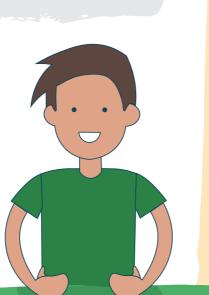
By making small changes to everyday places like our stations, we can encourage people to be tidy and save energy - looking after the environment.

Can you spot how many ways we have changed this station?



4

Hi I'm Elliot the Environmentalist. I work with Emily and other workers on the railway to make sure we look after the environment properly.



Our railway lines pass woods and forests, embankments and people's gardens, and you will see many different trees from your train window. Can you find them all hidden in the word search below? YEW BIRCH SYCAMORE POPLAR S G Ρ С \bigtriangledown Н 0 L Α Ζ Ε Ε D С Υ S W Ι R С В Ρ 0 Ρ Ι Υ Ε Α L Ζ Ρ 0 0 0 S Ρ 0

Word search

SCOTS PINE	OAK
HOLLY	ASH
HAZEL	
ELDER	

0	Т	S	Ρ	Ι	Ν	Е
Κ	Ρ	Μ	R	S	D	н
L	D	Е	R	Y	R	0
Κ	Н	Α	Ι	С	Ρ	L
Н	Α	S	U	Α	0	L
0	Ζ	н	Ι	Μ	Ρ	Υ
W	Ε	0	С	0	W	0
0	L	0	0	R	Ε	н
Ρ	L	Α	R	Ε	Α	Υ

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Colour the letters the same colours as the dot they have, to reveal a message.

What does it say

Find out more about all the exciting learning opportunities the railway has to offer. Here are some useful materials to keep you busy while you're at home: www.networkrail.co.uk/stories/ educational-resources-for-children

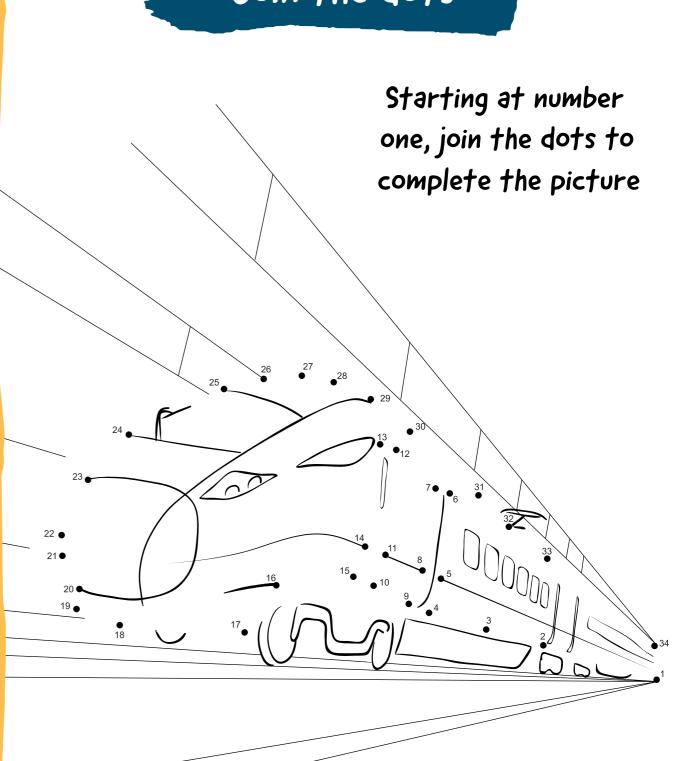
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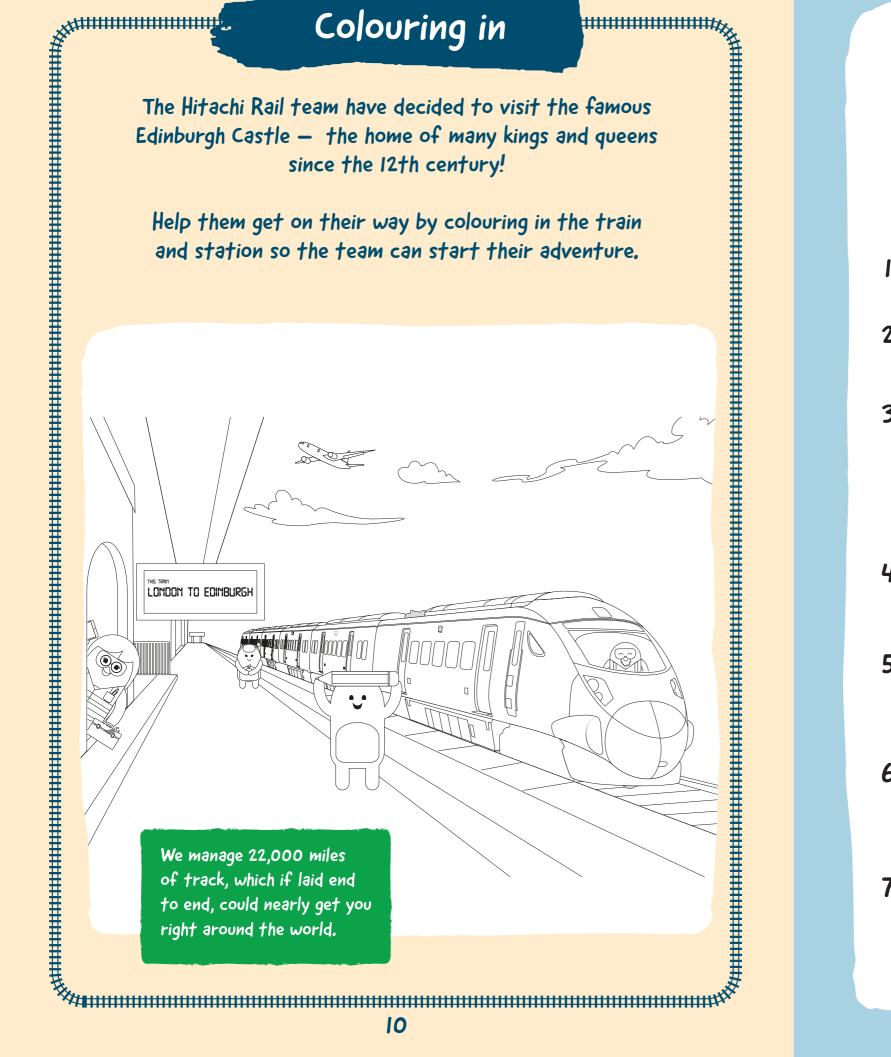
Network Rail has approx. 6.3 million trees growing beside the tracks — in 2018 our leaf busting trains covered approx. 1.4 million miles to keep the rail network clear. This is the equivalent to travelling to the moon and back three times.



Colouring in

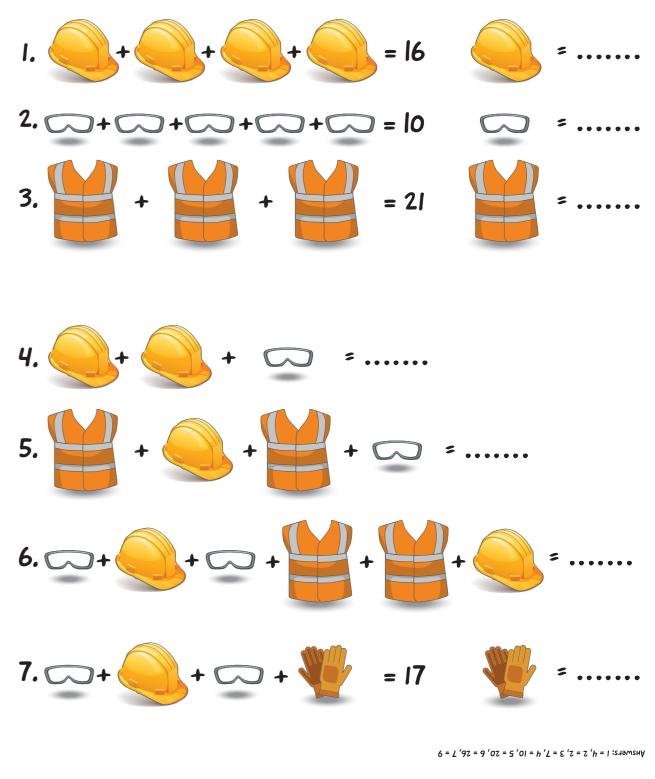
The Hitachi Rail team have decided to visit the famous Edinburgh Castle - the home of many kings and queens since the 12th century!

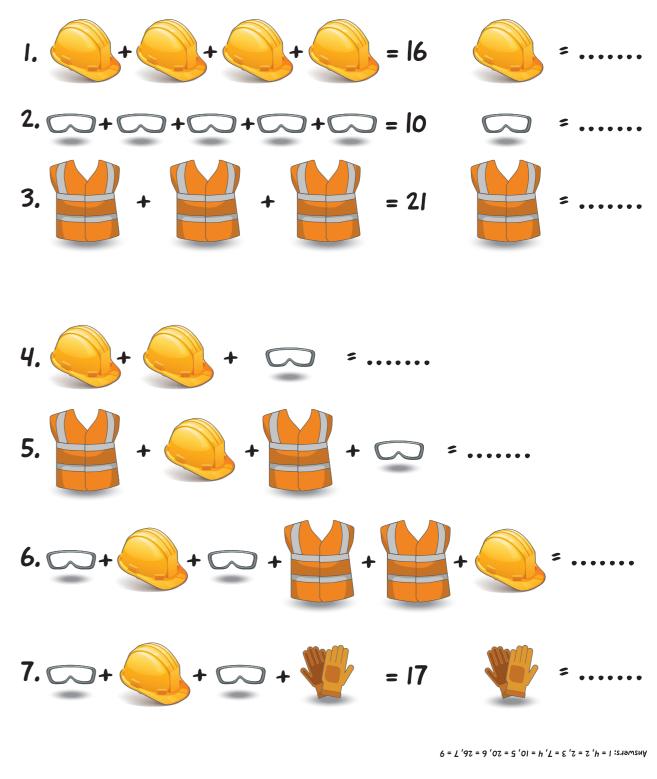
Help them get on their way by colouring in the train and station so the team can start their adventure.



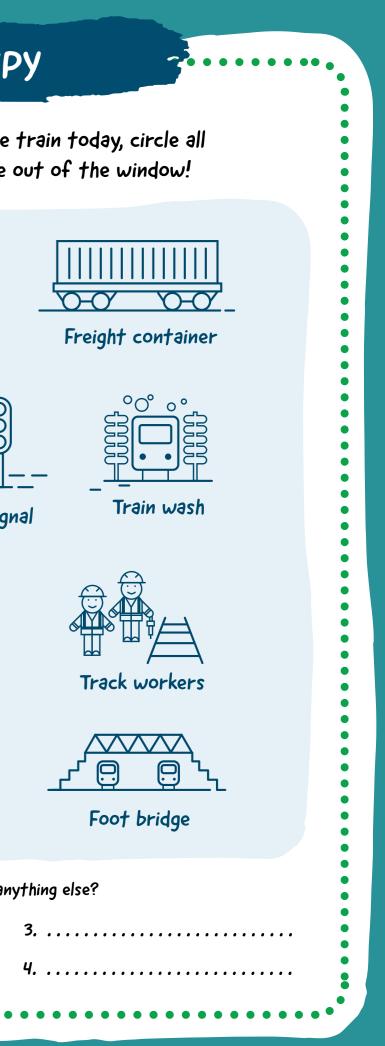
Maths

Safety equipment is very important in keeping workers safe on the railway. Can you do some maths to work out what the hard hat, safety glasses and hi-visibility jacket are?



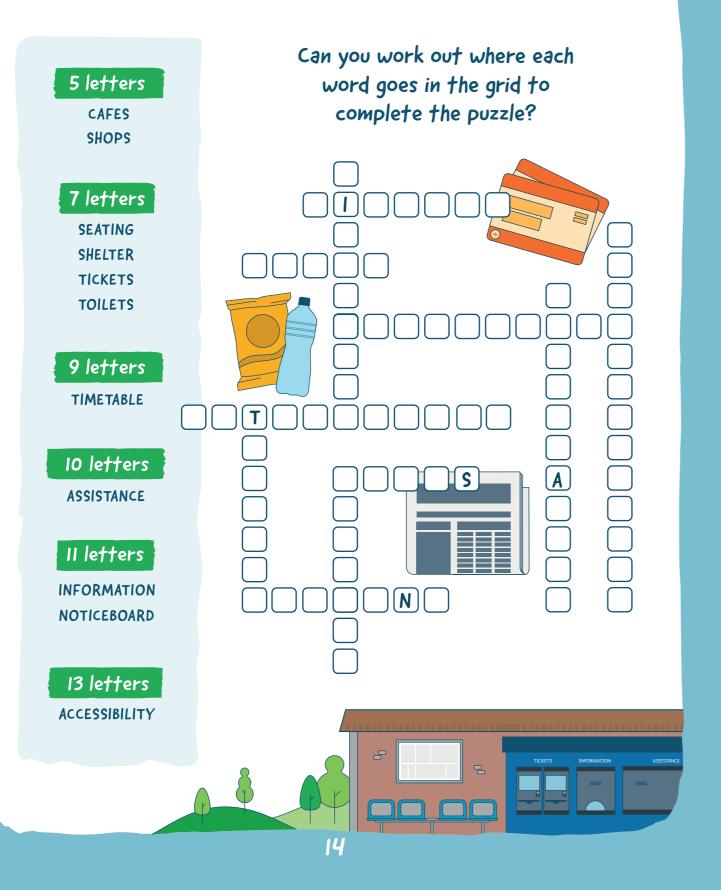


What type of Rail Engineer am l?	l sp
Can you match	When you travel on the of the things you see
the description to the correct engineer? I understand and look after the software to control the signalling system, the ticketing system and the train information systems. I am a	
 A. Software engineer A. Software engineer B. Civil engineer C. Electrical engineer C. Electrical engineer D. Mechanical engineer D. Mechanical engineer 	Windfarm Sign
3. I understand and look after the wheels, doors, and coaches of the trains. I am a A. Software engineer C. Electrical engineer	Train depot
B. Civil engineer D. Mechanical engineer D. Mechanical engineer	Level crossing
B. Civil engineer D. Mechanical engineer	Can you spot an I 2



Kriss Kross

We do all we can to make journeys more pleasant and comfortable for the millions of customers visiting our stations.



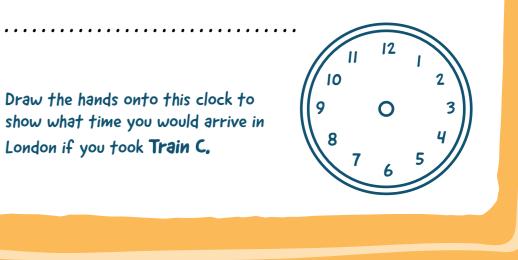
At Network Rail, we work round the clock to keep our trains running safely and reliably. If you arrive at Manchester Station at 3:00 pm, which train can you buy a ticket for? How long does 2. Train A take to get from Manchester to London? Draw the hands onto this clock to show what time you would arrive in

Timetables

Use the train timetable to answer the following questions.

Manchester to London Timetable			
	Depart	Arrive	
Train A	9:00 am	11:00 am	
Train B	1:00 pm	3:30 pm	
Train C	4:00 pm	7:00 pm	

If **Train B** stops at 5 stations along the journey, for 2 minutes each time, how many minutes is the train sat still for?



Our partners

A career in rail is more than you expect!

This activity book was funded by the kind support of our industry partners:





Network Rail owns, operates and develops Britain's railway infrastructure find out more.

networkrail.co.uk



ntar.co.uk/our-courses



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We run a high-speed rail link from England to Europe that runs under the English Channel. eurostar.com



You may not have heard of us, but each day, practically everyone in the UK benefits from a service we provide. If you've had a hot shower, taken a train or driven to work or had your rubbish collected it's pretty likely we helped with this.

www.amey.co.uk

Rail Delivery Group

National Rail

We bring together the companies that run Britain's railway into a single team with one goal — to deliver a better railway for you and your community.

raildeliverygroup.com



Young Rail Professionals: We are the professional association for young people in the Railway Industry; promoting, inspiring and developing the next generation of railway talent.

youngrailpro.com