MAKE YOUR DESTINATION,
A CAREER IN RAIL.

PRIMARY TEACHER PACK

CAREERS | RAIL | STEM | FUTURE

Green Challenge

In this pack you will find: an explanation of the destination rail green challenge, a suggested session plan, score sheet and winner and participation certificates.

The primary challenge can take place in a single session. Students are challenged to design a futuristic train. The train must be sustainable and use green energy. Students work will then be scored by the teacher before a winner is chosen.

Don't forget to use the Ambassador videos! 4 Ambassadors from the rail industry in your area have each answered 15 questions exploring their careers. Some of the questions have been embedded into the PowerPoint presentation. You can also access all of the questions at the following link: **www.learnbydesign.co.uk/destination-rail-resources**

The future train challenge aims to encourage students to think about all of the different aspects of designing a train for the future, from the how it is powered to what it will look like! Students will plan out their design before creating it using the materials supplied.

The Future Train challenge pack contains a design page as well as a useful facts page. For younger students it may be useful to go through the useful facts page together!

The Future Train Challenge

Subject links:
design technology, art, geography

Equipment required:

- Future Train challenge packs (1 per student)
- Art supplies – you can choose how students show you their design – included is a design sheet for them to draw on but you may decide to allow them to build the train from recyclable materials!

Brought to you on behalf of

CHESTERFIELD BOROUGH COUNCIL
Talgo
DERBYSHIRE County Council

Developed by LEARN by design

#DestinationRail

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Green Challenge

Future Train Session KS1	
5 minutes	Introduce the challenge and Talgo's new hydrogen train
10 minutes	Go through the key facts page and complete the word match activity
40 minutes	Allow students to create their train designs!
10 minutes	Ambassador questions (on powerpoint or following link: www.learnbydesign.co.uk/destination-rail-resources)

Future Train Session KS2	
5 minutes	Introduce the challenge and Talgo's new hydrogen train
45 minutes	Allow students to create their train designs! They can use the key facts page to help them. If they finish early the word match activity can be used as an extension task
10 minutes	Ambassador questions (on powerpoint or following link: www.learnbydesign.co.uk/destination-rail-resources)

Scoring the designs

Give 1 point for each:

- **Uses green energy**
- **Has a name**
- **Has labels**

Then score out of 10, considering aesthetics, how realistic the design is, how detailed the labels are etc.

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DESTINATION RAIL

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WINNER

This is to certify that

_____

has won the

DESTINATION RAIL

Green Challenge

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This is to certify that

_____

took part in the

DESTINATION RAIL
Green Challenge

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