

## MODULE 1 - STATIONS OF THE FUTURE

Imagine that you live in the year 2050. What will life be like? Taking on the role of a **Civil Engineer, Environmental Advisor, Building Information Modelling (BIM) Technician or Customer Experience (CX) Designer**, create a design proposal for a railway station of the future for your town or city on the site map provided.

### You must include:

- An annotated map of a futuristic station.
- A front elevation drawing, showing the outside of the station building.

You will present your proposal to the rest of the class and you will be marked on your *STEMPowers* evidenced throughout the activity.

### 1. Challenge 1: Joining the team

- a) In your team, you decide who is most suited to each of the job roles below. Put a tick next to your job role.

	<p><b>Civil Engineer</b></p> <p>I oversee the groundwork, design and construction of huge infrastructure projects such as tunnels, bridges, airports, stations and motorways</p>
	<p><b>Environmental Advisor</b></p> <p>I investigate and minimize the impact of engineering projects on our planet, from ensuring wildlife is respected to decreasing the carbon footprint.</p>
	<p><b>Building Information Modelling Technician</b></p> <p>I am responsible for communicating and testing all details of the construction project as drawings and models.</p>
	<p><b>Customer Experience (CX) Designer</b></p> <p>I ensure that all our designs and services are on trend and meet the needs of our customers.</p>

- b) What essential skills and other qualities do you have that make you suitable for this job?

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- c) Using the HS2 EPIC App, add two extra sentences to your job description that help to explain your role in the team.

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### Challenge 2: Creating your proposal

- a) Using the materials provided, get started on your futuristic station design.

#### You should think about:

- How new technologies such as robotics and digitalisation will change the way that people live and travel in the year 2050 and beyond
- The shops, restaurants and leisure facilities that will exist in the future
- And how your station will meet the needs of all customers
- The impacts of your station on the natural and historical environment of your town or city



Figure 1 Design Vision for Interchange Station, Solihull

### Challenge 3: Evaluate

How did it go? Answer the following questions to evaluate your proposal.

- a) How did you influence the design of your station?

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- b) Which essential skill did you use the most during the activity?

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#### Self-assess your essential skills. How did you improve?

Creativity							
Teamwork							
Listening							
Speaking							