

Get your students thinking about the Industrial Strategy Grand Challenges

1. What do you know already?

Collect 2-3 images relating to each of the four Grand Challenge themes. Ask students to discuss what words, themes and topics are represented in the images. Ask them to think of other similar examples, encouraging them to consider things which are local and personally relevant to them.

You could ask students to collect and add their own images but using examples from their local area, community, interests and hobbies. They should provide an explanation for each one including why they have chosen it.

Alternatively, you could use news articles and headlines linked to the four themes. Ask students to research other examples in the local and national press.

2. Connecting questions

In small groups of 3 or 4, ask students to list the things that are important to them in their everyday lives and write these on cards. Ask them to consider each one in turn and think about how it might be affected by an Ageing Society; new technology using Artificial Intelligence and Data; new transport options and Clean Growth. Challenge them to come up with a question to frame their investigation. E.g. Could an artificially intelligent machine replace my sports coach?

3. Where do you stand?

Using some of the questions students have generated, ask students to decide where they stand on the issues and to explain their position. Challenge them to think of other potential dilemmas linked to the Industrial Strategy Grand Challenges.

4. Selecting a project idea

Ask students to create a mind map to show how the four themes link to their lives and interests before deciding which ideas they are most interested in investigating further. They could choose a project from the ideas in this pack or come up with their own idea linked to their interests.

Make sure students check their project plan with a teacher or mentor before they begin.

