Pearson Edexcel Level 1/Level 2 GCSE (9–1)

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Valid ONLY for certification in 2021

Paper Reference **1DT0/02**

Design and Technology

Component 2

You do not need any other materials.

Instructions

- You must undertake a project in response to one of the contextual challenges, taking into account the needs and wants of the user.
- You should use creativity and imagination when applying iterative design processes to develop and modify designs, and to design and make a prototype.
- You have been provided with three themes, each with two contextual challenges listed. Through your ideas and your final prototype, you will be required to show how you have addressed the contextual challenge.
- You must produce a portfolio and a prototype.
- The portfolio must contain photographic evidence of the manufacture of the prototype.
- Your portfolio must be approximately 20–30 pages (or electronic equivalent).

Turn over ▶

Pearson

Contextual challenges

All design and technology happens within a context. It is important for designers to understand the context they are designing within, as this will impact on the wants and needs of users as well as the requirements for the design.

Designers often need to find innovative solutions to design challenges and they look for inspiration from many places to come up with ideas. Often, these design challenges relate to ways in which improvements can be made to the lives or environments in which people live.

Below are three themes, each with two contextual challenges. You must choose **one** contextual challenge to explore and respond to through your assessment project.

Theme 1   Climate Emergency

Contextual challenges

   (a) How can products be used to increase our awareness of the climate emergency?

   (b) How can products be used to promote a more sustainable lifestyle?

Theme 2   Cinemas

Contextual challenges

   (a) How can products be used to encourage people to visit the cinema?

   (b) How can products be used to improve the experience of people at the cinema?

Theme 3   The Coast

Contextual challenges

   (a) How can products be used to preserve wildlife in coastal areas?

   (b) How can products be used to stay safe at the coast?