



**Cambridge Assessment International Education**  
Cambridge International General Certificate of Secondary Education

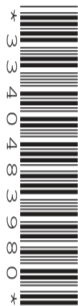
CANDIDATE  
NAME

CENTRE  
NUMBER

|  |  |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|--|--|--|--|--|

CANDIDATE  
NUMBER

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|



**DESIGN AND TECHNOLOGY**

**0445/23**

Paper 2 Graphic Products

**May/June 2019**

**1 hour**

Candidates answer on the two inserted A3 Answer Sheets.

Additional Materials: Standard drawing equipment

**READ THESE INSTRUCTIONS FIRST**

Write your centre number, candidate number and name in the spaces at the top of this page and on the two Answer Sheets.

Do not use staples, paper clips, glue or correction fluid.  
DO **NOT** WRITE IN ANY BARCODES.

**Section A**

Answer **all** questions in this section (A1, A2 and A3).

**Section B**

Answer **one** question in this section (B4 or B5).  
You may use a calculator.

Draw your answers in the spaces provided on the Answer Sheets.  
All construction and projection lines must be clearly shown.  
All dimensions are in millimetres.

At the end of the examination, insert both sheets into this booklet. Do **not** punch holes in the cover and sheets or tie with string.

The total of the marks for this paper is 50.

The number of marks is given in brackets [ ] at the end of each question or part question.

This document consists of an A3 cover booklet and 2 inserted A3 sheets.

DC (SC/SW) 164712/3  
© UCLES 2019



**[Turn over**





---

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced online in the Cambridge Assessment International Education Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download at [www.cambridgeinternational.org](http://www.cambridgeinternational.org) after the live examination series.

Cambridge Assessment International Education is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of the University of Cambridge Local Examinations Syndicate (UCLES), which itself is a department of the University of Cambridge.