

Guidance and information for teachers



NGMT

Introduction

The New Group Maths Test (*NGMT*) was published in a digital edition in September 2024. It comprised one item bank for students from age 6 years to 12 years. The test is adaptive and comprises three forms (A, B and C) which may be administered to students across the age range at specific times of the academic year.

NGMT is suitable for the following year groups:

NGMT Form	Year Group		
	England and Wales	Scotland	Northern Ireland
A	Years 2–7	P3–S1	P3–Year 8
B	Years 2–7	P3–S1	P3–Year 8
C	Years 2–7	P3–S1	P3–Year 8

When to test

NGMT can be administered up to three times a year: once in each term. Termly testing will allow the most effective monitoring of children's attainment and progress in mathematics.

- *NGMT* Form A is designed for administration during the first term of the academic year.
- *NGMT* Form B is designed for administration during the middle of the academic year.
- *NGMT* Form C is designed for administration during the final term of the academic year.

Another possible way of using *NGMT* would be to screen all students in the first term of the year. This screening can identify weaker mathematicians for whom an intervention may be put in place. The intervention group can be screened again in the second term, and all students again in the third term, for example.

Adaptive testing with *NGMT*

NGMT is adaptive, meaning that each student's performance is assessed as they complete the test and the questions adapted to be in line with the levels of attainment they demonstrate. This is of particular benefit to students with skills that are not commensurate with their chronological ages – they can be tested with material at a lower or higher level than that determined by their year group.

The sequence of questions presented to the student is based on the probability of answering a question correctly within the basal set (which is determined by age). As a student responds to individual questions, subsequent test content is presented to them at what is perceived to be an appropriate level of difficulty. Test questions – all linked to the English National Curriculum Programmes of Study for mathematics – will be presented to students within a defined range: individuals will see content linked to a year group that may be as much as two years before or beyond their academic year group, according to the accuracy of their responses. However, students will be presented with test questions only in mathematical domains consistent with their academic year group.

NGMT uses a look up of the child's age at the time of testing and tracks back to the beginning of the term in order that the child initially sees content relevant to their academic year. If a child falls outside of the bounds of the age range of the test, the Test Player will be unable to identify a starting question and so testing of this individual will not be possible.

So:

- The program will determine each student's first question based on their date of birth
- Each student will progress through the test according to performance
- An incorrect response will lead to a question of lower difficulty being displayed to the student next
- A correct response will lead to a more challenging question being displayed to the student next
- Students will be presented with test questions only in mathematical domains consistent with their academic year group.
- Students will be presented with test content that cycles through mathematical domains – it is not the case that multiple items relating to one specific aspect of mathematics will be shown to a student in sequence.

Testing time will be approximately 45-60 minutes. However, please note that as *NGMT* is adaptive, the time taken to test each student will vary; some children will finish before others and may require additional materials to occupy them whilst others complete the test. **All students must reach the end of the test (i.e. click the 'End Test' button on-screen) for their test data to be uploaded and available within post-testing reporting.**

Administering the test

Note: The test administrator will need to read through the following instructions well in advance of the test session.

Prior to testing

It is strongly advised that you go to the following page of our website for information about test environment, set up and other aspects of what to do ahead of testing: <https://support.gl-assessment.co.uk/knowledge-base/assessments/ngmt-support/before-the-test/pre-testing-essentials>

Each student will need either their own personal computer, tablet or Chromebook. All students also require headphones to access the test instructions and practice material; children below the age of 9 years old on September 1st may also experience some audio during the test itself. You are advised to check that headphones are working and that sound levels are appropriate before logging on to Testwise. It may be helpful for children to have access to pencils and paper for rough workings and jottings, but the use of calculators is not permitted for any age of learner.

Administration

The test must be administered in a formal test environment with students made aware that they are taking a test and that the usual expectations of behaviour and constraints of a test session will be in place.

All administration instructions are incorporated into the test program but please introduce the test session and check that students understand the instructions and the method of answering by walking around the room as they work through these parts of the test.

When students are settled, explain that they are going to take a test of their mathematical knowledge, skills and understanding. Students must work in silence but, if they have a query, they should raise their hand and wait for the teacher to approach them.

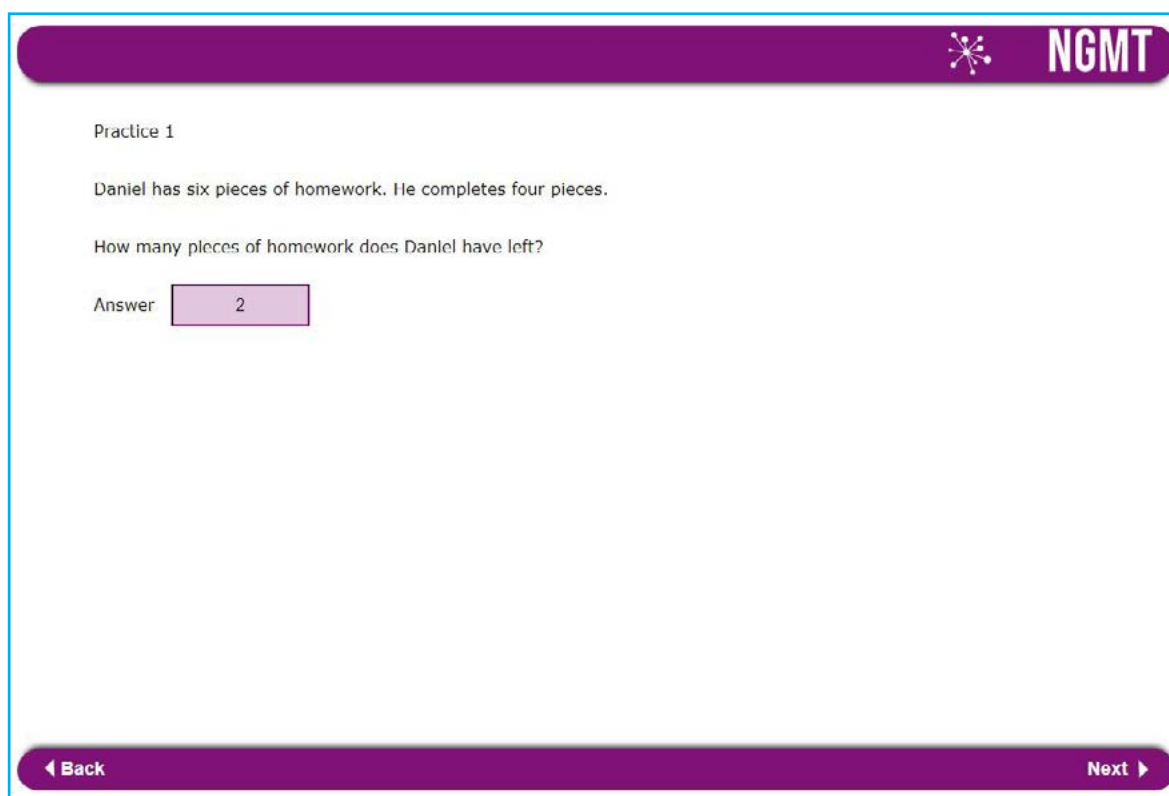
Answer any questions at this stage and explain that you cannot help explain any of the test content, but that reading questions aloud to students is perfectly acceptable. When supporting students in such a way, anyone administering the test should ensure that the integrity of the test is preserved at all times.

Reassurance

Further explain that the test starts with some practice questions to get them used to the nature of the test and that all instructions are given by audio. *NGMT* is not a timed test so students should work through the questions at their own pace.

There are six different question types within the NGMT:

Free text input




The screenshot shows the NGMT interface. At the top, there is a purple header bar with the NGMT logo on the right. Below the header, the text "Practice 1" is displayed. The question text reads: "Daniel has six pieces of homework. He completes four pieces. How many pieces of homework does Daniel have left?". Below the question, there is an "Answer" label followed by a text input box containing the number "2". At the bottom of the interface, there is a purple navigation bar with "Back" and "Next" buttons.

These questions require the student to type an answer using their keyboard.

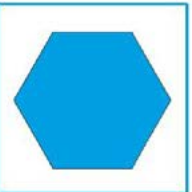

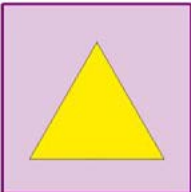

Multiple-choice questions

These questions require the student to select a single correct answer from a number of given possible answers.

 **NGMT**

Practice 2


Which of these shapes has three sides?



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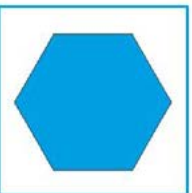

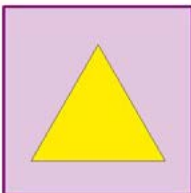

Multiple-response questions

These questions require the student to select as many correct answers as they believe exist from a number of given possible answers.

 **NGMT**

Practice 3


Which of these shapes have the same number of sides?



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Drag and drop questions

These questions require the student to arrange a series of interactive cards by way of clicking and dragging.

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Practice 4

Put these numbers in order, from the smallest to the largest.

50

40

10

20


30

Smallest → Largest

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Click-to-match questions

These questions require the student to match pairs by way of successive clicks of their mouse button or touches of their screen.

 **NGMT**

Practice 5

Match the words to the correct numbers.

Four

Three

One

Two

1

2

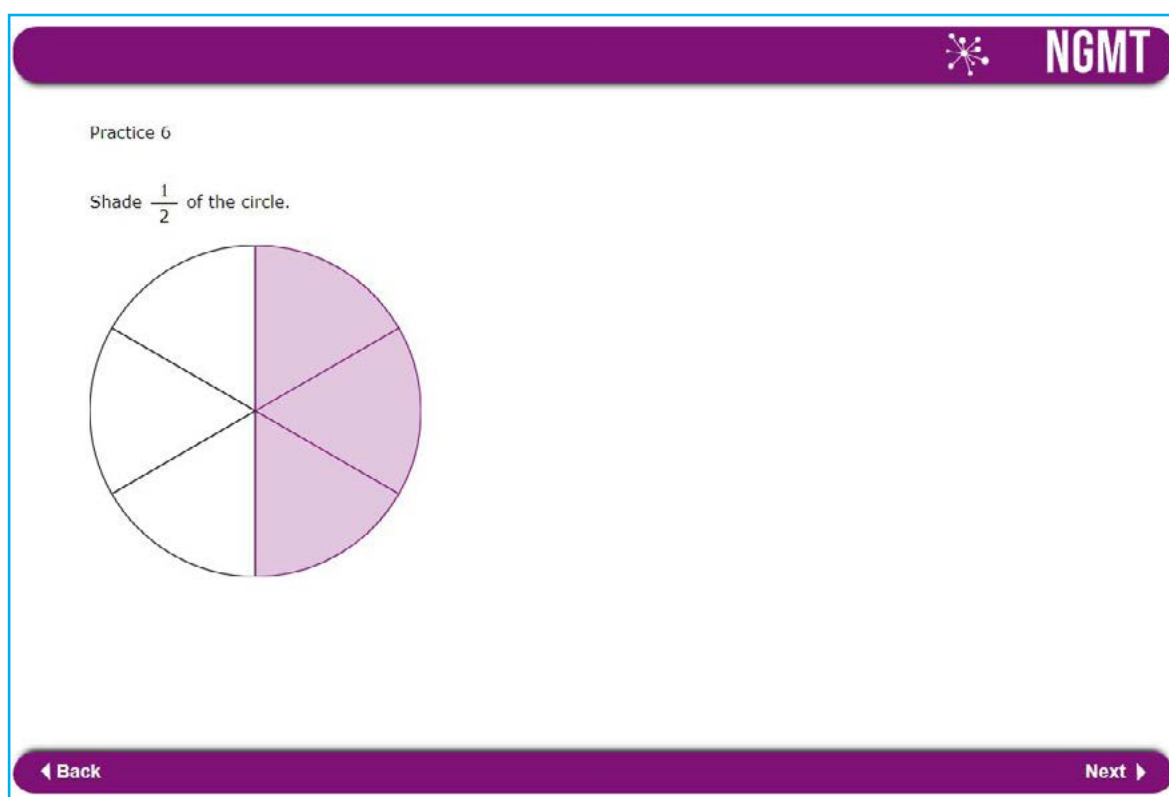
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4

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Shading questions

These questions require the student to shade defined areas of a shape or image by way of clicks of their mouse button or touches of their screen.



The voiceover will explain how students should complete each different type of question, as well as how changes can be made to any initial answers given.

Once the students have clicked on 'Next' on any question screen, they cannot return to the previous question. This must be made clear to students ahead of time.

Because *NGMT* is adaptive, each student will see a different set of test questions. Accuracy in each question response will determine which subsequent item is seen.

During the test

During the test session, you should walk around periodically to prevent copying and to ensure that students understand how to answer the test on-screen. Any students showing signs of difficulties should be given assistance. However, you should give no help at all in the choosing of answers, nor in understanding maths-specific vocabulary.

Testing time will be approximately 45-60 minutes. Some students may finish in a shorter time and should have work to hand so that they remain occupied until the whole group has completed the test.

At the end of the test

At the end of the test all responses will be uploaded to the Testwise server. Please do not turn off any computer until the students have clicked on the '**End Test**' button and have been taken back to the page showing that the test has been taken and their results successfully uploaded.

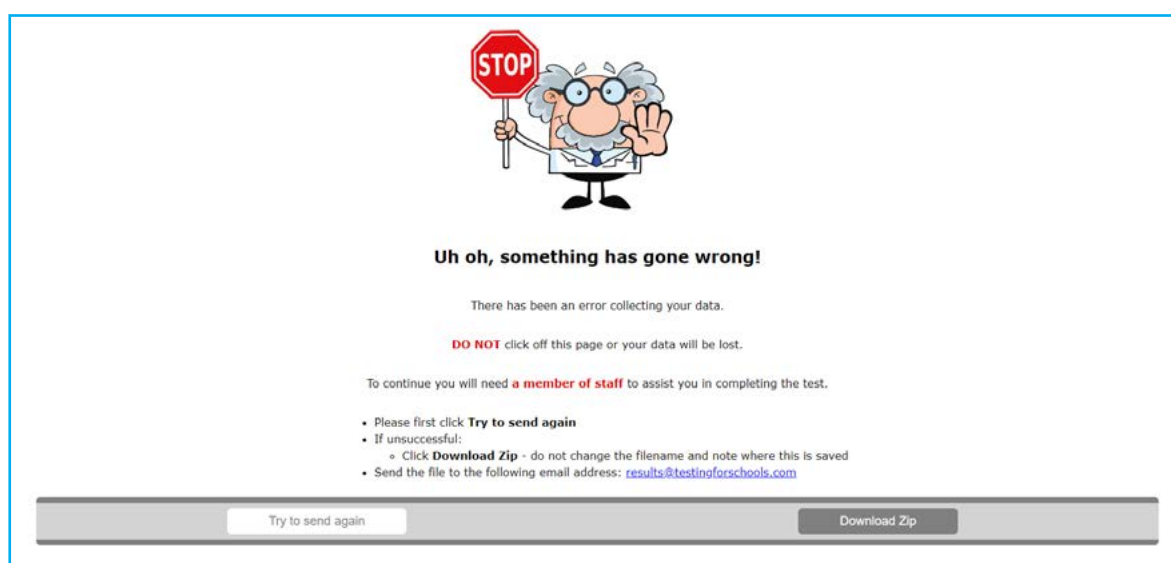
In the event of an individual student requiring a significant period of additional time to complete the assessment, it should be at the discretion of the teacher overseeing the test as to whether one of two things should occur:

- Clicking the 'Next' button to the end of the test, such that the student's data can be uploaded to Testwise and accessed within the NGMT Reporting Hub. This will mean that any outstanding questions will be considered to have been answered incorrectly and this will be reflected in the test outcomes for the individual student.
- Closing the test window. A 'pop up' will appear on screen to advise that the student's responses will be lost and no data relating to their assessment will be saved.

Unexpected incidents

If there is a failure in your computer system while students are completing the test, it will not be possible to re-enter the test at the point at which the failure occurred. If students have fully completed a section of the test and a computer failure occurs, they will be able to recommence the test at the section after the one they have completed. If students complete the test and responses are stored (that is, they have clicked the '**End Test**' button) and then the system fails, it will be possible to retrieve responses and reports from the GL Assessment back-up server.

The student will be able to carry on with the assessment. However, if no internet connection has been established by the time the student tries to end the test and send the results to us, the following message should appear on the screen:



The student or the invigilator will then need to follow the instructions on screen to be able to manually submit the raw data on the account, so that the student doesn't have to retake the assessment or a certain section of the test.

NGMT Reporting Hub

NGMT results are provided in an updated format, giving greater flexibility to analyse students' mathematical attainment in our interactive reporting hub.

For all students for whom sufficient test data exists (some exclusions will apply based on a student's age), stanines will be provided for the following maths strands/domains:

- Maths Facts & Procedures
- Reasoning & Problem-Solving
- Number & Algebra
- Fractions, Decimals, Percentages, Proportion & Ratio
- Measurement, Geometry & Statistics

NGMT Group Report for Teachers

An interactive, Group Report for Teachers will be available after testing. Key features of this new style of reporting include:

- Filter your test data based on the information held within your Testwise student list.
- Save filters for easy access at a later date.
- Quickly filter by test date to consider most recent or historical testing.
- View test scores for groups of students as well as individual test performance.
- Access 'Help' content on screen as necessary.

NGMT Excel Report

Two versions of an Excel Report are made available upon completion of testing using NGMT: .xls and .csv. These include students' demographic data as well as metrics relating to their test performance.

Additionally, a condensed form of the full Excel Report has been designed to be teacher-friendly, incorporating only key test data alongside students' names and group information.

Additional Reporting

As NGMT continues to grow to include additional test Forms (during spring/summer 2025), so too will the range of reports and included information. This may include, but may not be limited to, features that appear for our other tests, such as Individual Reports for Teachers, cluster reporting, indicators of future statutory test performance and progress measures, for example.

Testwise Technical Support Team

If you have any problems using Testwise, email the Testwise Technical Support Team at support@gl-assessment.co.uk.

You can view our full Testwise Support Services on our website:

<https://support.gl-assessment.co.uk/knowledge-base/platforms/testwise>

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