## Ma

Mathematics tests
KEY STAGE 2

## Levels <br> 3-5

## Mathematics mark schemes

Paper 1, Paper 2 and mental mathematics

22015 key stage 2 levels 3-5 mathematics tests mark schemes

## [BLANK PAGE]

This page is intentionally blank.

## Introduction

The Standards and Testing Agency (STA) is responsible for the development and delivery of statutory tests and assessments. STA is an executive agency of the Department for Education.

This booklet contains the mark schemes for the assessment of levels 3-5 mathematics. Level threshold tables will be available at www.gov.uk/sta from Tuesday 7 July, 2015.

The levels 3-5 mathematics test is made up of 3 papers. A total of 100 marks is available.

- Paper 1 and Paper 2 ( 40 marks each)
- Mental mathematics paper (20 marks)

Calculators cannot be used by any pupils sitting the levels 3-5 mathematics test.
As in previous years, external markers will mark the key stage 2 national curriculum tests. The mark schemes are made available to teachers after the tests have been taken.

The mark schemes were written and developed alongside the questions. Pupils' responses from trialling have been added as examples to the mark schemes to ensure they reflect how pupils respond to the questions. The mark schemes indicate the criteria on which judgements should be made. In applying these principles, markers use professional judgement based on the training they have received.

## The mathematics test mark schemes

The marking information for each question is set out in the form of tables, which start on page 8 of this booklet.

The 'Question' column on the left-hand side of each table provides a quick reference to the question number and the question part.

The 'Requirement' column may include 2 types of information:

- a statement of the requirements for the award of each mark, with an indication of whether credit can be given for correct working
- examples of some different types of correct response.

The 'Mark' column indicates the total number of marks available for each question part. On some occasions the symbol (U1) may be shown in the 'Mark' column. The ' $U$ ' indicates that there is a Using and applying mathematics element in the question. The number, 1 , shows the number of marks attributed to Using and applying mathematics in this question.
The 'Additional guidance' column indicates alternative acceptable responses, and provides details of specific types of response which are unacceptable. Other guidance, such as the range of acceptable answers, is provided as necessary.

Additionally, for the mental mathematics test, general guidance on marking is given on page 20, followed by the marking information for each question.

## Applying the mark schemes

To ensure consistency of marking, the most frequent queries about applying the mark schemes are listed on pages 4 and 5 along with the action the marker will take. This is followed by further guidance on pages 6 and 7 relating to the marking of questions that involve money, time and other measures. Unless otherwise specified in the mark schemes, markers will apply the following guidelines in all cases.

## General guidance in marking the levels 3-5 mathematics tests

## What if...

The pupil's response is numerically or algebraically equivalent to the answer in the mark scheme.

The pupil's response does not match closely any of the examples given.

The pupil has responded in a non-standard way.

There appears to be a misreading affecting the working.

No answer is given in the expected place, but the correct answer is given elsewhere.

The pupil's answer is correct but the wrong working is shown.

The response in the answer box is wrong, but the correct answer is shown in the working.

## Marking procedure

Markers will award the mark unless the mark scheme states otherwise.

Markers will use their judgement in deciding whether the response corresponds with the statement of the requirements given in the 'Requirement' column. Reference will also be made to the 'Additional guidance' column and, if there is still uncertainty, markers will contact the supervising marker.

Calculations, formulae and written responses do not have to be set out in any particular format. Pupils may provide evidence in any form as long as its meaning can be understood. Diagrams, symbols or words are acceptable for explanations or for indicating a response. Any correct method of setting out working, however idiosyncratic, will be accepted.

This is when the pupil misreads the information given in the question and uses different information without altering the original intention or difficulty level of the question. For each misread that occurs, 1 mark only will be deducted.
In 1-mark questions - 0 marks are awarded.
In 2-mark questions that have a method mark - 1 mark will be awarded if the correct method is correctly implemented with the misread number.

Where a pupil has shown understanding of the question, the mark(s) will be given. In particular, where a word or number response is expected, a pupil may meet the requirement by annotating a graph or labelling a diagram elsewhere in the question.

A correct response will always be marked as correct.

Where appropriate, detailed guidance will be given in the mark scheme, which markers will follow. If no guidance is given, markers will examine each case to decide whether:

- the incorrect answer is due to a transcription error
- the pupil has continued to give redundant extra working which does not contradict work already done
- the pupil has continued to give redundant extra working which does contradict work already done.

If so, the mark will be awarded.

If so, the mark will be awarded.

If so, the mark will not be awarded.

## What if...

The correct response has been crossed out and not replaced.

More than 1 answer is given.

The answer is correct but, in a later part of the question, the pupil has contradicted this response.

The pupil has drawn lines which do not meet at the correct point.

## Marking procedure

Any legible crossed-out work that has not been replaced will be marked according to the mark schemes. If the work is replaced, then crossed-out work will not be considered.

If all answers are correct (or a range of answers is given, all of which are correct), the mark will be awarded unless prohibited by the mark schemes. If both correct and incorrect responses are given, no mark will be awarded.

A mark given for 1 part will not be disallowed for working or answers given in a different part, unless the mark scheme specifically states otherwise.

Markers will interpret the phrase 'slight inaccuracies in drawing' to mean 'within or on a circle of radius 2 mm with its centre at the correct point'.


## Recording marks awarded

Marking will take place on screen with markers viewing scanned images of pupils' scripts. Marks should be entered into the marking system in accordance with the guidance for the on-screen marking software.

Further details on recording marks and the use of the on-screen system will be given at marker training.

For multiple-mark questions, markers will record the award 2 , 1 or 0 as appropriate, according to the mark-scheme criteria. There will be provision in the software to record questions not attempted.

The software will aggregate mark totals automatically.

## Marking specific types of question: summary of additional guidance

## Responses involving money

| Where the $£$ sign |
| :--- |
| is given |
| for example: $£ 3.20, ~$ |

## Responses involving time

|  | Accept | Do not accept |
| :---: | :---: | :---: |
| A time interval for example: 2 hours 30 minutes | 2 hours 30 minutes <br> Any unambiguous, correct indication, eg: <br> $2 \frac{1}{2}$ hours <br> 2.5 hours <br> 2h 30 <br> 2h 30 min <br> 230 <br> 150 minutes <br> 150 <br> Digital electronic time, ie <br> 2:30 | Incorrect or ambiguous time interval, eg: <br> 2.30 <br> 2-30 <br> 2,30 <br> 230 <br> 2.3 <br> 2.3 hours <br> 2.3h <br> 2h 3 <br> 2.30 min |
| A specific time <br> for example: 8:40am, 17:20 | 8:40am <br> 8:40 <br> twenty to nine <br> Any unambiguous, correct indication, eg: <br> 08.40 <br> 8.40 <br> 0840 <br> 840 <br> 8-40 <br> 8,40 <br> Unambiguous change to 12 - or 24-hour clock, eg: <br> 17:20 as $5: 20 \mathrm{pm}$ or $17: 20 \mathrm{pm}$ | Incorrect time, eg: <br> 8.4am <br> 8.40pm <br> Incorrect placement of separators, spaces, etc or incorrect use or omission of 0 , eg: <br> 840 <br> 8:4:0 <br> 8.4 <br> 084 |

## Responses involving measures

|  | Accept | Do not accept |
| :---: | :---: | :---: |
| Where units are given | 8.6kg |  |
| (eg: kg, m, l) <br> for example: 8.6 kg | Any unambiguous indication of the correct measurement, eg: | Incorrect or ambiguous use of units, eg 8600kg |
| kg | 8.60 kg |  |
|  | 8.6000 kg |  |
|  | $8 \mathrm{~kg} \mathrm{600g}$ |  |

## Note

If a pupil leaves the answer box empty but writes the answer elsewhere on the page, then that answer must be consistent with the units given in the answer box and the conditions listed above.
If a pupil changes the unit given in the answer box, then their answer must be equivalent to the correct answer using the unit they have chosen, unless otherwise indicated in the mark schemes.

82015 key stage 2 levels 3-5 mathematics tests mark schemes

## Paper 1

| Question | Requirement |
| :---: | :--- |
| $\mathbf{1}$ | Award Two marks for four names corre <br> placed on the diagram as shown: |
| $\qquad$Alfie Donna <br> Megan Chen |  |

If the answer is incorrect, award ONE mark for three names correctly placed.


If the answer is incorrect, award ONE mark for two lines of symmetry correctly drawn.

## Mark

Up to $2 m$

Up to $2 m$

1m

Additional guidance
Accept unambiguous abbreviations or recognisable misspellings.

Do not accept names written in more than one section.

Accept alternative unambiguous indications, eg number ticked, crossed or underlined.

Accept inaccurate drawing provided the intention is clear.

The answer is a time interval (see page 7 for guidance).

The answer is a specific time (see page 7 for guidance).

## Paper 1

| Question | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 6a | Diagrams completed correctly as shown: | 1 m |  |
|  |  |  |  |
| 6b |  | 1m |  |
| 7 | Award TWO marks for the correct answer of 290 <br> If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: <br> 110140170200230260290 OR <br> 110140170190220250280 OR $\begin{aligned} & 300+20=320 \\ & 320-30=\text { wrong answer } \end{aligned}$ | Up to $2 m$ <br> (u1) | Working must be carried through to reach an answer for the award of ONE mark. <br> Not spotting closest number <br> One step size incorrect (170 to 190) |
| 8a <br> 8b | 63 5 | $\begin{aligned} & 1 \mathrm{~m} \\ & 1 \mathrm{~m} \end{aligned}$ |  |

## 102015 key stage 2 levels 3-5 mathematics tests mark schemes

## Paper 1

| Question | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 9a 9b | $£ 7$ 4 | $\begin{aligned} & 1 \mathrm{~m} \\ & \mathbf{1 m} \end{aligned}$ | Accept an answer in the range $£ 6.75$ to $£ 7.25$ inclusive. <br> Do not accept a list of classes. |
| 10a <br> 10b | Award TWO marks for the correct answer of £7.05 <br> If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: <br> $£ 20-£ 5.45-£ 7.50=$ wrong answer OR <br> $£ 5.45+£ 7.50=£ 12.95$ <br> $£ 20-£ 12.95$ = wrong answer <br> 15 | Up to $2 m$ $1 \mathrm{~m}$ | Accept for ONE mark $£ 705$ OR $£ 705$ p as evidence of appropriate working. <br> Working must be carried through to reach an answer for the award of ONE mark. |
| $\begin{aligned} & 11 a \\ & 11 b \end{aligned}$ | $\begin{aligned} & \mathbf{X}=125 \\ & \mathbf{Y}=-75 \end{aligned}$ | $\begin{aligned} & 1 \mathrm{~m} \\ & 1 \mathrm{~m} \end{aligned}$ | Do not accept 75- |
| $\begin{aligned} & 12 a \\ & 12 b \end{aligned}$ | Answer in the range 65 mm to 69 mm inclusive. Answer in the range $123^{\circ}$ to $127^{\circ}$ inclusive. | 1 m <br> 1 m |  |
| 13 | Diagram completed as shown: <br> OR | U1 | Accept slight inaccuracies in drawing, provided the intention is clear. <br> Diagrams may be completed in any orientation. |
| 14 | 83.6 | 1 m |  |

## Paper 1



## Paper 1

| Question | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 21 | Two numbers with a difference of 2 , in the range 48 inclusive to 52 exclusive eg: <br> 48 AND 50 <br> OR <br> 51.9 AND 49.9 <br> OR <br> any pair of numbers that differ from those above by a multiple of 100 and have a difference of 2 , eg: <br> 149 AND 151 <br> OR <br> 648 AND 650 | 1 m <br> (U1) | Numbers can be given in either order. |
| 22 | 38 | 1 m |  |
| 23 | A counter-example or an explanation that shows Alfie is incorrect, eg: <br> - 'It doesn't work when one of the numbers is 1 ' <br> - ' $1 \times 99=99$, and 99 is not less than 99 ' <br> - 'It's not true for zero' <br> - ' $0 \times 5=0$, and 0 is less than 5 ' <br> - 'It doesn't work for fractions less than 1' <br> - ' $0.5 \times 8=4$, and 4 is less than 8 ' <br> - 'If one number is negative and the other is positive, the answer is negative' | 1 m <br> U1 | No mark is awarded for circling 'No' alone. <br> Do not accept vague or incomplete explanations, eg: <br> - 'It's not always true' <br> - 'It doesn't work when one of the numbers is small' <br> If 'Yes' is circled but a correct, unambiguous explanation is given then award the mark. |
| 24 | Award TWO marks for the correct answer of 55p OR £0.55 <br> If the answer is incorrect, award ONE mark for evidence of appropriate working, eg $\begin{aligned} & £ 2.35-£ 1.25=£ 1.10 \\ & £ 1.10 \div 2=\text { wrong answer } \end{aligned}$ | Up to $\mathbf{2 m}$ <br> U1 | Accept for ONE mark £55 OR £55p OR 0.55p as evidence of appropriate working. <br> Working must be carried through to reach an answer for the award of ONE mark. |

## [BLANK PAGE]

This page is intentionally blank.

## 142015 key stage 2 levels 3-5 mathematics tests mark schemes

## Paper 2

| Question | Requirement |
| :---: | :---: |
| 1 | 89 |
| 2 | Temperatures in ascending order, as shown: $-24^{\circ} \mathrm{C} \quad-13^{\circ} \mathrm{C} \quad 0^{\circ} \mathrm{C} \quad 21^{\circ} \mathrm{C} \quad 35^{\circ} \mathrm{C}$ |
| 3a <br> 3b | £3.48 <br> Award TWO marks for the correct answer of $£ 1.10$ <br> If the answer is incorrect, award ONE mark for evidence of appropriate working, eg: $\begin{aligned} & £ 1.80+30 p=£ 2.10 \\ & 60 p+40 p=£ 1.00 \\ & £ 2.10-£ 1.00=\text { wrong answer } \end{aligned}$ |
| 4 | Award TWO marks for three numbers correct as shown: <br> 19 <br> 38 <br> 76 <br> 152 <br> 304 <br> If the answer is incorrect, award ONE mark for two numbers correct. |
| 5 | 2 AND 4 |
| 6a <br> 6b | 5 45 |
| 7 | Award TWO marks for the correct answer of <br> A AND E <br> If the answer is incorrect, award ONE mark for: <br> - both letters correct and not more than one incorrect <br> - A only (and no other letters) <br> - E only (and no other letters) |

Mark
1m
1m

1m
Up to $2 m$

Up to $2 m$
$1 m$
$1 m$
1m
Up to $2 m$

Additional guidance

Accept for ONE mark £110 OR £110p as evidence of appropriate working.
Working must be carried through to reach an answer for the award of ONE mark.

Accept alternative unambiguous indications, eg right angles marked on diagrams.

Letters may be given in either order.
Accept alternative unambiguous indications, eg tiles ticked or circled.

## Paper 2

| Question | Requirement |
| :---: | :---: |
| 8 a | $4 \frac{1}{2}$ OR 4.5 |
| 8b | A point marked on the line at either 17 cm OR 11 cm , ie |
|  |  |
|  | OR |
|  |  |
| $9 a$ $9 b$ | Rectangle (oblong) drawn in one of the correct positions as shown in diagram below: <br> Square drawn in one of the correct positions as shown in diagram below: |
| 9b | . |
|  | . . . . . . . . . . . . . |
|  | - . . . . . . . . . |
|  | $\cdot \ldots \cdot \ldots$ |
| 10a | Any two triangles in the shape shaded. |
| 10b | Any two more triangles in the shape shaded. |
| 11a | 14 |
| 11b | $\frac{1}{3}$ |

## Mark

1m

1 m

U1 1m

Additional guidance

The mark need not touch the line provided the intention is clear.

The marked point need not be labelled.

Only accept a square that is joined to the side of an adjacent rectangle (oblong).

Accept alternative unambiguous indications.
Accept alternative unambiguous indications.

Accept equivalent fractions eg $\frac{7}{21}$ Ignore subsequent work if $\frac{7}{21}$ is simplified incorrectly.

Accept follow through in part b of $\frac{7}{a+7}$

## 162015 key stage 2 levels 3-5 mathematics tests mark schemes

## Paper 2

## Question

12

Award TWO marks for the correct answer as shown:

## 51

## 52

## 50

48

## 49

If the answer is incorrect, award ONE mark for 4 true statements with no number repeated (within those 4), eg:

## Requirement

Award TWO marks for the correct answer of 60 If the answer is incorrect, award ONE mark for evidence of appropriate working, eg:

- Ate 10 , gave away 5

Ate 40, gave away 20
Ate $40+20=$ wrong answer

- $40 \div 10=4$
$4 \times 5=20$
$20+40=$ wrong answer


13
350

## Mark

Additional guidance

## Up to $2 m$

Working must be carried through to reach an answer for the award of ONE mark.

## Up to $2 m$

Do not accept numbers other than those given.
(Multiple of 3 can be 48 OR 51)
(Multiple of 4 can be 48 OR 52)

## Paper 2

| Question | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 16a | 7 | 1 m |  |
| 16b | 8 | 1 m |  |
| 17a | 38 | 1 m | The answer is a time interval (see page 7 for guidance). |
| 17b | 10:21 | 1 m | The answer is a specific time (see page 7 for guidance). |
| 17c | 10:58 | 1 m |  |
| 18 | Number circled as shown: <br> $20.1 \quad 19.09 \quad 20.09 \quad 20.201$ | 1 m | Accept alternative unambiguous indications, eg number ticked, crossed or underlined. |
| 19 | Award TWO marks for the correct answer of 26 <br> If the answer is incorrect award ONE mark for evidence of appropriate working which contains not more than ONE arithmetical error, eg: <br> Long divisional algorithm <br> wrong answer <br> 36 <br> Short division algorithm <br> wrong answer <br> 36 $93^{21} 6$ <br> - Repeated addition/subtraction methods, eg <br> - Factorisation methods, eg $\begin{aligned} & 936 \div 9=104 \\ & 104 \div 4=\text { wrong answer } \end{aligned}$ | Up to 2 m | Working must be carried through to reach an answer for the award of ONE mark. <br> In all cases, accept follow-through of ONE error in working. <br> Variations on algorithms are acceptable, provided they represent a viable and complete method. <br> Do not award any marks if the final answer is missing. <br> Short division methods must be supported by evidence of appropriate carrying figures to indicate use of division algorithm and be a complete method. <br> No mark is awarded for addition/subtraction the wrong number of times. |

## 182015 key stage 2 levels 3-5 mathematics tests mark schemes

## Paper 2

## Question

## Requirement

Award TWO marks for the correct answer of 72
If the answer is incorrect, award ONE mark for evidence of appropriate working, eg

- $13 \times 4=52$
$5 \times 4=20$
$52+20=$ wrong answer
Award TWO marks for the sequence completed correctly as shown:


If the answer is incorrect, award ONE mark for two numbers correct.
$(50,15)$
An explanation which recognises that they are equally likely to choose a blue counter, eg:

■ 'Half the counters in each bag are blue'

- ' 5 out of 10 is the same as 10 out of 20 '
- 'Chen has twice as many blue counters but he also has twice as many counters altogether, so the chance is the same'.


## Mark

Up to $2 m$
Working must be carried through to reach an answer for the award of ONE mark.

## Up to $2 m$

Additional guidance

No mark is awarded for circling 'No' alone.
Do not accept vague or incomplete explanations, eg:

- 'There is an equal chance'
- 'If Chen has 10 blue and Megan has 5'.

If 'Yes' is circled but a correct, unambiguous explanation is given, then award the mark.

## [BLANK PAGE]

This page is intentionally blank.

## Mark scheme for the mental mathematics test

## Applying the mark scheme

Please note that pupils will not be penalised if they record any information given in the question or show their working. External markers will ignore any annotation, even if in the answer space, and mark only the answer. External markers will accept an unambiguous answer written in the stimulus box, or elsewhere on the page.

Full mark scheme information is given on page 22. In addition, a 'quick reference' mark scheme is provided on page 21. This is presented in a similar format to the pupils' answer sheet.

## General guidance

The general guidance for marking the written tests also applies to marking the mental mathematics test. In addition, the following principles apply.

1. Unless stated otherwise in the mark scheme, accept answers written in words, or a combination of words and figures.
2. Where units are specified, they are given on the answer sheet. Pupils are not penalised for writing in the units again.
3. Where answers are required to be ringed, do not accept if more than 1 answer is ringed, unless it is clear which is the pupil's intended answer. Accept also any other way of indicating the correct answer, eg underlining.

## 2015 mental mathematics

## Quick reference mark scheme

## Practice question



Time: 5 seconds

| 1 | 84 |
| :--- | :--- |


| 2 | 12 |
| :--- | :--- |



| 12 | 0.35 |
| :--- | :--- |



| 3 | 50 |
| :--- | :--- |



| 13 | 42 | 40 |  |
| :--- | :--- | :--- | :--- |


| 4 | 35 | mins | $11: 25$ | ${ }_{4}$ |
| :--- | :--- | :--- | :--- | :--- |


| 14 | 1.8 |
| :--- | :--- |



| 15 | 750000 |
| :--- | :--- |

Time: 10 seconds

| 6 | $£ 3.20$ | $£ 6.80$ | ${ }_{6}$ |
| :--- | :--- | :--- | :--- |


| 7 | 27 | 18 | 7 |
| :--- | :--- | :--- | :--- |



| 9 | 0.1 | $0.30^{0.5}$ |  |
| :--- | :--- | :--- | :--- |
|  | 0.7 | 0.9 | 9 |


| 10 | 22 |
| :--- | :--- |



Time: 15 seconds

| 16 | 110 | 5 |  |
| :--- | :--- | :--- | :--- |


| 17 | 4 | cm | 30 cm |  |
| :--- | :--- | :--- | :--- | :--- |


| 18 | 486 | 540 |  |
| :--- | :--- | :--- | :--- |


| 19 | $£ 12.00$ | $£ 2.40$ |  |
| :--- | :--- | :--- | :--- |


| 20 | 8 |
| :--- | :--- |

222015 key stage 2 levels 3-5 mathematics tests mark schemes

Mental mathematics: Questions 1-20

| Question | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 1 | 84 | 1 m |  |
| 2 | 12 | 1 m |  |
| 3 | 50 | 1 m |  |
| 4 | 35 | 1 m |  |
| 5 | 100 | 1 m |  |
| 6 | $£ 3.20$ | 1 m |  |
| 7 | 27 | 1 m |  |
| 8 | 900 | 1 m |  |
| 9 | $\begin{array}{ccc} 0.1 & 0.3 & 0.5 \\ 0.7 & 0.9 \end{array}$ | 1 m |  |
| 10 | 22 | 1 m |  |
| 11 | 10 | 1 m | $\text { Accept } \frac{10}{4}$ |
| 12 | 0.35 | 1 m |  |
| 13 | 42 | 1 m |  |
| 14 | 1.8 | 1 m |  |
| 15 | 750000 | 1 m |  |
| 16 | 110 | 1 m |  |
| 17 | 4 cm | 1 m |  |
| 18 | 486 | 1 m |  |
| 19 | $£ 12.00$ | 1 m |  |
| 20 | 8 | 1 m |  |

## [BLANK PAGE]

This page is intentionally blank.

## Standards <br> \& Testing <br> Agency

2015 key stage 2 levels 3-5 mathematics: mathematics mark schemes Print version product code: STA/15/7217/p ISBN: 978-1-78315-419-7 Electronic version product code: STA/15/7217/e ISBN: 978-1-78315-447-0

## For more copies

Additional printed copies of this booklet are not available. It can be downloaded from www.gov.uk/government/publications.

## © Crown copyright and Crown information 2015

## Re-use of Crown copyright and Crown information in test materials

Subject to the exceptions listed below, the test materials on this website are Crown copyright or Crown information and you may re-use them (not including logos) free of charge in any format or medium in accordance with the terms of the Open Government Licence v3.0 which can be found on the National Archives website and accessed via the following link: www.nationalarchives.gov.uk/doc/open-government-licence. When you use this information under the Open Government Licence v3.0, you should include the following attribution: "Contains public sector information licensed under the Open Government Licence v3.0" and where possible provide a link to the licence.

## Exceptions - third party copyright content in test materials

You must obtain permission from the relevant copyright owners, as listed in the ' 2015 key stage 2 test materials copyright report', for re-use of any third party copyright content which we have identified in the test materials, as listed below. Alternatively you should remove the unlicensed third party copyright content and/or replace it with appropriately licensed material.

## Third party content

These materials contain no third party copyright content.
If you have any queries regarding these test materials contact the national curriculum assessments helpline on 03003033013 or email assessments@education.gov.uk.

