

KS3: Years 7-9

Answer and Adult Guidance

uklearninghub.com

Use the guidance flexibly. Open-ended work is assessed for the stated skill rather than one fixed answer.

M01 Integers and order of operations

Answer key - KS3 Maths | Show each stage.

1. 5

2. -7

3. -24

4. 23

5. 35

Challenge: 10

M02 Fractions, decimals and percentages

Answer key - KS3 Maths | Convert accurately.

1. 0.75

2. 35%

3. 12

4. $\frac{3}{4}$

5. $\frac{1}{2}$

Challenge: £48

M03 Ratio and proportion

Answer key - KS3 Maths | Keep ratios equivalent.

1. 2:3

2. £10 and £30

3. £7.50

4. 300 g

Challenge: 37 km

M04 Algebra: simplify and substitute

Answer key - KS3 Maths | Use algebra rules.

1. $8x$

2. $5a + 4$

3. 10

4. 1

5. $4n + 12$

Challenge: $2p + 11$

M05 Equations

Answer key - KS3 Maths | Balance both sides.

1. $x = 12$

2. $y = 9$

3. $a = 6$

4. $m = 6$

5. $n = 7$

Challenge: $x = 11$

M06 Sequences

Answer key - KS3 Maths | Find the rule.

1. 13, 16, 19

2. $3n + 2$

3. 29

4. Yes; $n = 13$.

Challenge: $23 - 3n$

M07 Angles and polygons

Answer key - KS3 Maths | Give reasons.

1. 180 degrees
2. 360 degrees
3. 57 degrees
4. 60 degrees
5. 360 degrees

Challenge: 8

M08 Area, volume and Pythagoras

Answer key - KS3 Maths | Use correct units.

1. 42 cm²

2. 96 cm³

3. 10 cm

4. 31.4 cm

Challenge: 12 cm

M09 Coordinates and gradients

Answer key - KS3 Maths | Plot mentally where possible.

1. (5, 3)

2. (4, 2)

3. 2

4. yes

Challenge: -11

M10 Statistics and probability

Answer key - KS3 Maths | State methods.

1. 10

2. 5

3. 11

4. $\frac{1}{2}$

5. $\frac{1}{4}$

Challenge: $\frac{7}{10}$

M11 Financial maths

Answer key - KS3 Maths | Apply percentages and rates.

1. £10
2. £216
3. £92
4. £24,720

Challenge: First: £78; second: £66; second is cheaper.

E01 Vocabulary and connotation

Answer key - KS3 English | Choose precise language.

1. e.g. slender, lean
2. e.g. scrawny, gaunt
3. e.g. surged, streamed, filed
4. Suggests sudden, unsteady movement.

Challenge: Open response; tense/precise vocabulary.

E02 Clauses and sentence craft

Answer key - KS3 English | Build control.

1. Although it rained
2. Open response, e.g. which stood on the cliff.
3. The bridge was repaired by the council.
4. The sun set; the road grew dark.

Challenge: Open response; correct colon.

E03 Punctuation and accuracy

Answer key - KS3 English | Edit carefully.

1. It's a long journey, isn't it?
2. The equipment - compass, map, torch - was ready. (or commas/brackets used correctly)
3. Maria said, "I can't see the path."
4. The weather changed suddenly; however, the team continued.

Challenge: Any two: punctuation, grammar, spelling, agreement, clarity.

E04 Reading: City roofs

Answer key - KS3 English | Read the original extract.

From the roof, Amina watched the city switch itself on. Windows flickered gold; trains stitched bright lines through the dusk. Below, people streamed from offices, each carrying a private weather of thoughts. Amina had come upstairs to escape the noise, yet the wide view made her feel connected to every street.

1. Dusk/evening; windows flickered and city switched on.
2. Moving trains create connected bright trails; figurative image of sewing.
3. People have individual moods/worries/feelings.
4. Connected, despite seeking escape.

Challenge: e.g. personification/metaphor with a relevant effect.

E05 Reading: Plastic choices

Answer key - KS3 English | Read the original non-fiction passage.

Single-use plastic is convenient because it is cheap, light and durable. Those strengths become problems when an item used for minutes remains in the environment for decades. Reducing waste is not only about refusing plastic: it also means designing products that can be reused, repaired or recycled well. Small choices matter most when they become shared habits.

1. Cheap, light or durable.
2. Items can remain in the environment for decades.
3. Reuse, repair and recycle.
4. Individual choices have bigger impact when many people repeat them.

Challenge: Open response, e.g. Rethinking Single-Use Plastic.

E06 Poetry analysis

Answer key - KS3 English | Analyse the original lines.

*The moon was a coin in a torn black purse;
the river kept its silver secret.*

1. metaphor
2. Black and silver.
3. The river.
4. e.g. mysterious, quiet, eerie.

Challenge: Open response; personification present.

E07 Persuasive writing

Answer key - KS3 English | Plan an argument.

1. Open response.
2. Open response; question used persuasively.
3. Open response; relevant measurable claim.
4. Open response; acknowledges alternative.
5. Open response; responds logically.

Challenge: Clear viewpoint, persuasive devices and coherent structure.

E08 Narrative writing

Answer key - KS3 English | Plan a tense opening.

1. Open response.
2. Open response.
3. Open response.
4. Open response; hints at future trouble.

Challenge: Original, coherent narrative with setting and tension.

E09 Comparing viewpoints

Answer key - KS3 English | Compare two short views.

1. Whether uniform is beneficial or restrictive.
2. Open response, e.g. creates focus.
3. Open response, e.g. limits identity.
4. Open response; acknowledges both views.

Challenge: Personal judgement supported by reasons.

E10 Formal and informal register

Answer key - KS3 English | Select suitable style.

1. Could you please send me the materials as soon as possible?
2. Please reply soon. / Let me know.
3. Dear Sir/Madam
4. Open response, e.g. Work Experience Enquiry.

Challenge: Appropriate greeting, clear request, polite close.