A QUICK GUIDE TO MATHSBOX

RETRIEVAL – FLUENCY AND NUMERACY – KEY STAGE 2 to KEY STAGE 4

RETRIEVAL

SKILLS CHECKS

Weekly skills checks for Year 3 to A LEVEL.

(6 different sets for GCSE)

10 or 5 questions to project or 20 question worksheets to print.

Student record sheets and answers included.
**New versions just added to match
the WHITE ROSE MATHS Scheme of Learning**

Week 6

1. Work out $\frac{1}{10} \times 2\frac{1}{5}$
2. Express 13 out of 40 as a percentage
3. Expand and simplify $(x - 1)(x + 2)(x - 1)$
4. The answer is 0.6 when a number n, has been rounded to **1 significant figure**. Complete the inequality $? \leq n < ?$
5. Find the 7th **term** 1200, 800, 400, 0
6. Factorise $x^2 - 11x - 12$
7. Work out $4 \times 10^3 \times 5.5 \times 10^4$ (in standard form)
8. Where is the **y intercept** of the line $y - 6 = 2x$?
9. Simplify $2x^3y^2z \times 2y^2z^2$
10. Solve $\frac{4x}{3} - 2 = 2x - 10$

NEW VERSIONS ON THE WAY with an endless supply of questions to print or project.

NUMERACY

NUMBER UP

300 differentiated numeracy worksheets starting with number bond to 10, up to complex calculations (270 similar versions to project)

FLUENCY

TIMES TABLES

Timed (or manual advance) tests to project for single or mixed tables.

- Tables squares
- Bingo Game
- Treasure Hunts
- Settlers
- Worksheets

8 SET 9
- 10 seconds per question
- 5 seconds per question
- 3 seconds per question

TABLES CHALLENGE

DIRECTED NUMBERS

More than 100 quick question worksheets

MULTIPLYING DECIMALS

More than 240 quick question worksheets

DECIMALS CHECK
1) $0.2 \times 0.5 =$ 2) $0.4 \times 5 =$
3) $8 \times 0.5 =$ 4) $2.5 \div 0.5 =$
5) $0.2 \times 5 =$ 6) $0.8 \times 0.5 =$
7) $0.7 \times 5 =$ 8) $4 \times 0.5 =$
9) $11 \times 0.5 =$ 10) $35 \div 5 =$
11) $5 \times 0.5 =$ 12) $6 \div 5 =$
13) $0.6 \times 0.5 =$ 14) $1.5 \div 0.5 =$
15) $12 \times 0.5 =$ 16) $10 \times 5 =$

TEACHING – QUESTIONS – ACTIVITIES - KEY STAGE 2 to KEY STAGE 4

QUESTIONS

NEW iQUESTIONS

New topic specific questions to print or project at the click of a button – space to model solutions.

- up to 8 new questions on each click
- answers included
- 200+ sets available so far with more on the way

QUESTIONS

DIFFERENTIATED QUESTIONS

Topic specific questions to print or project (with answers) 3 different 'levels' on each set

Adding Fractions

Area (3)

QUESTIONS

TREASURE HUNTS LOOP CARDS

20 question alternatives to textbook/worksheet exercises

306.9 cm²

Calculate the surface area
(correct to 1 decimal place)
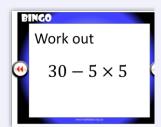
5 cm

12 cm

10 cm

Volume and surface area of a frustum

A

QUESTIONS

BINGO GAMES

30 question bingo games
40 different cards to print (or DIY) questions to project + checklist

BINGO

Work out

$30 - 5 \times 5$
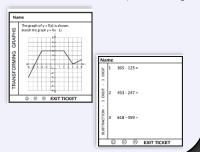
QUESTIONS

EXIT TICKETS

Ready to use print sheets of questions with answers (3-6 sheets per A4 Page)

QUESTIONS

MULTIPLE CHOICE QUIZZES

5 Question multiple choice quizzes to project with 'common mistake' answers in the options

QUESTION 1
Express 0.7 as a percentage

A	B	C	D
0.70%	0.7%	7%	70%

QUESTION 4
Calculate x

A	C
36°	72°
B	D
144°	108°

QUESTIONS

SETTLERS

20 question activities - cross off the answers to find the target

Find the next term of a sequence

TOTAL

PROBLEM SOLVING

STRUCTURED PROBLEMS
Each problem has 3 starter problems checking the 'skills' needed to solve the main problem
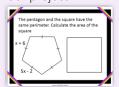

UNSTRUCTURED PROBLEMS
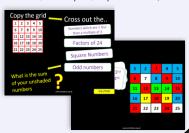More than 70 problems with worked solutions to print or project

CHALLENGES AND GAMES

NUMBER DETECTIVES
Challenges to project based on recall of number types (prime, factors, multiple, squares…..)

CHALLENGES

SKI RUNS
Differentiated 10 question mixed arithmetic challenges to project. 3 different levels on each page

CHALLENGES

WARMUPS
Arithmetic, single operations or mixed challenges to project.

CHALLENGES

WARM UP CHALLENGE
Start number
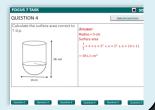**40**

GCSE SPECIFIC RESOURCES

AS/A LEVEL RESOURCES

REVISION

FOCUS TASKS (Grades 1 to 9)
185 worksheets and presentations, with solutions and 'similar questions', targeting specific grades

RETRIEVAL

SKILLS CHECKS
5 Question skills check to print or project. Sets for AS and A Level, core maths, statistics and mechanics. Full worked solutions included.

ASSESSMENT

I CAN….TOPIC WORKSHEETS
Topic specific worksheets with questions increasing in difficulty (answer sheet included)

QUESTIONS

3 TOPIC QUESTIONS TO PROJECT
A collection of topic specific resources each with 3 questions to project or print (and solutions). There are 2 versions for each topic which could be used as a before/after check

Includes

Further Maths

Pure Topics

$$\int_0^2 x^2 + 1 \, dx \quad \text{A}$$

$$\int_1^2 x^3 + x \, dx \quad \text{B}$$

$$\int_{-3}^{-1} 9 - x^2 \, dx \quad \text{C}$$

iQUESTIONS – Formulae to learn
TREASURE HUNTS / BINGO GAMES
4 MIXED QUESTIONS

REVISION NOTES
TREASURE HUNTS / BINGO GAMES
SETTLERS /RELAYS

QUICK COVER

A collection more than 100 ready use lessons for 'last minute' cover resources. Each lesson includes printable

- notes and methods
- questions
- answers

12 months school subscription
only £60 + VAT

www.mathbox.org.uk