

BACK-TO-BASICS DRILL SHEETS

(BY TOPIC)

A clear place to rebuild maths
foundations, year by year



WHY "BACK TO BASICS" MATTERS

Problem:

A lot of kids are doing trial tests and past papers... but underneath, the foundations are shaky:

- **Times tables slow**
- **Fractions, decimals, percentages fuzzy**
- **Basic operations with carrying/borrowing not automatic**

So they:

- Lose marks on easy questions
- Run out of time because the basics take too long
- Feel "bad at maths" when it's really just unpractised fundamentals

This pack gives you:

- **Clear topic buckets**
- **A minimum drill volume** (how many questions)
- **Exact links to good, free/low-cost practice** for each year band

- A printable Drill Sheet template for each area

Use it when you realise your child needs to step back, patch foundations, then step forward again.

HOW TO USE THIS PACK (PARENTS)

Pick the year band

- **Lower:** Year 3–4
- **Middle:** Year 5–6
- **Transition:** Year 7+ (early high school / selective prep)

Pick 1–2 weak topics (from the list below):

- Number & arithmetic basics
- Fractions & decimals
- Percentages & ratio
- Word problems & reasoning
- Measurement & geometry
- Patterns & algebra

Print / open drills from the suggested sites

- Aim for **10–15 basic questions per topic, 3–5 days/week**
- Use the **Drill Sheet template** (later in this pack)
- Write date, topic, questions attempted

- Circle questions to review together

You don't have to use every link; think of this as a curated index of where to go when you need to rebuild basics.

TOPIC 1: NUMBER & ARITHMETIC BASICS

(Place value, addition/subtraction, multiplication, division)

Year 3-4

Khan Academy – Get Ready for 3rd Grade Math

Focus on units: addition and subtraction; multiplication and division; fractions

<https://www.khanacademy.org/math/get-ready-for-3rd-grade>

Khan Academy – 3rd Grade Math Course (for more depth & mixed practice)

<https://www.khanacademy.org/math/cc-third-grade-math>

Corbettmaths Primary – Number Videos & Worksheets

Printable basics for addition, subtraction, times tables, division.

<https://corbettmathsprimary.com/content/>

Transum – Arithmetic / Number Topic Index

Short interactive drills by topic: addition, subtraction, multiplication, division.

https://www.transum.org/Software/Transum_Topics.asp (see Arithmetic, Fractions, Decimals etc.)

Year 5-6

Khan Academy – Get Ready for 5th Grade Math

Strong for decimal place value, operations with decimals & fractions.

<https://www.khanacademy.org/math/get-ready-for-5th-grade>

Khan Academy – 5th Grade Math Course

Use units on multi-digit multiplication & division, addition/subtraction, fractions.

<https://www.khanacademy.org/math/cc-fifth-grade-math>

Corbettmaths Primary – Addition / Subtraction / Multiplication / Division Worksheets

Each topic has Video → Practice Questions (PDF) → Answers, perfect for drill sheets.

<https://corbettmathsprimary.com/content/>

Corbettmaths Primary – 5-a-Day

Mixed daily starter with 5 basic questions – great for quick routine practice.

<https://corbettmathsprimary.com/5-a-day/>

Year 7+

Khan Academy – Get Ready for 6th Grade Math

Great for revising arithmetic operations, negative numbers, ratios.

<https://www.khanacademy.org/math/get-ready-for-6th-grade>

Khan Academy – 6th Grade Math Course (Arithmetic & rational numbers unit)

<https://www.khanacademy.org/math/cc-sixth-grade-math>

Corbettmaths – Videos & Worksheets (Secondary)

Scroll to Addition, Subtraction, Multiplication, Division, BIDMAS for drill questions.

<https://corbettmaths.com/contents/>

TOPIC 2: FRACTIONS & DECIMALS (BACK TO BASICS)

Year 3–4

Khan Academy – Understand Fractions (Grade 3)

Grade 3 unit focusing on basic fraction concepts.

<https://www.khanacademy.org/math/cc-third-grade-math/imp-fractions>

Khan Academy – Get Ready for 4th Grade – Fractions & Decimals Units

<https://www.khanacademy.org/math/get-ready-for-4th-grade>

Corbettmaths Primary – Fractions Worksheets

Look under "Fractions" for simplified, printable drill questions.

<https://corbettmathsprimary.com/content/>

Year 5–6

Khan Academy – Add and Subtract Fractions (Grade 5)

Great for rebuilding common denominator skills.

<https://www.khanacademy.org/math/cc-fifth-grade-math/imp-fractions-3>

Khan Academy – Decimal Place Value (Grade 5)

Helpful for place value, reading/writing decimals.

<https://www.khanacademy.org/math/cc-fifth-grade-math/imp-place-value-and-decimals>

Transum – Fractions & Decimals Topics

From the topics index, choose Fractions and Decimals for graded interactive exercises.

https://www.transum.org/Software/Transum_Topics.asp

Corbettmaths Primary – Fractions / Decimals Worksheets

Use "Questions" PDFs as printable drill sheets.

<https://corbettmathsprimary.com/content/>

Year 7+

Khan Academy – Arithmetic with Rational Numbers (Grade 6)

Consolidates operations with fractions & decimals.

<https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations>

Transum – Fractions & Decimals (higher levels)

From the Transum Topics page, pick higher-level Fraction/Decimal drills.

https://www.transum.org/Software/Transum_Topics.asp

Corbettmaths – Fraction / Decimal Worksheets (Secondary)

Including improper/mixed, recurring decimals, etc.

<https://corbettmaths.com/contents/>

TOPIC 3: PERCENTAGES & RATIO

Year 4–5 (introducing)

Khan Academy – Intro Percentages in Grade 5 Units

Inside 5th Grade course, look for "multiply fractions" and "fraction-decimal-percent" concepts.

<https://www.khanacademy.org/math/cc-fifth-grade-math>

Transum – Percentages

Interactive drills from basic 10%/50% to harder multi-step.

https://www.transum.org/Software/Transum_Topics.asp (click Percentages)

Year 6–7 (core ratios & % for selective)

Khan Academy – Ratios (Grade 6)

Complete this unit for a strong basis in ratio & rate.

<https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-ratios-prop-topic>

Khan Academy – Percentage Problems (Grade 6/7 sections & Get Ready)

Within "Get ready for 6th grade" as well as 6th-grade course.

<https://www.khanacademy.org/math/get-ready-for-6th-grade>

Corbettmaths / Corbettmaths Primary – Percentage Worksheets

Use both Primary and Secondary for step-by-step builds (10%, 20%, percentage change).

<https://corbettmathsprimary.com/content/> (Primary)

<https://corbettmaths.com/contents/> (Secondary)

Transum – Ratio & Proportion

From Topics page, choose Ratio for multi-level practice.

https://www.transum.org/Software/Transum_Topics.asp

TOPIC 4: WORD PROBLEMS & REASONING

This is for thinking, not just drills – but still counts as "back to basics" for problem solving.

Year 3–4

NRICH – Primary Number Problems by Topic

Use "Number" section for age 7–11 tasks – great for gentle but rich word problems.

<https://nrich.maths.org/topics-mathematics-primary-students>

NRICH – Thinking Mathematically (Primary)

Focus on simple, structured reasoning tasks.

<https://nrich.maths.org/thinking-mathematically-primary-students>

Year 5–6

NRICH – Primary Curriculum Map

Choose the topic your child is weak in, then pick one or two problems per week as "deep drills".

<https://nrich.maths.org/curriculum-maps/primary>

Khan Academy – Word Problem Units

Within grade courses (3rd–6th), target word problem sections in each unit (esp. fractions, four operations, ratios).

<https://www.khanacademy.org/math> (select grade then problem type)

Year 7+

NRICH – Upper Primary / Lower Secondary Problems

From the primary and early secondary sections, choose problems labelled around ages 9–14 for stretch.

<https://nrich.maths.org/students/primary>

Transum – Word Problem / Puzzle Starters

Use the Starter of the Day archive by topic (logic, number, fractions).

https://www.transum.org/software/sw/starter_of_the_day/
(navigate by topic)

These aren't "30-question worksheets" – they're deep practice in thinking. Aim for 1–3 NRICH problems per week, but do them slowly and thoroughly.

TOPIC 5: MEASUREMENT & GEOMETRY

Year 3–4

Khan Academy – Get Ready for 3rd & 4th Grade (Geometry & Measurement Units)

<https://www.khanacademy.org/math/get-ready-for-3rd-grade>

<https://www.khanacademy.org/math/get-ready-for-4th-grade>

Corbettmaths Primary – Angles, Shapes, Perimeter, Area Worksheets

<https://corbettmathsprimary.com/content/>

Year 5–6

Khan Academy – Grade 5 Geometry & Volume Units

<https://www.khanacademy.org/math/cc-fifth-grade-math> (see Geometry, Measurement, Volume units)

NRICH – Shape, Position & Movement (Primary)

Nice conceptual tasks about shapes, area, angles, transformations.

<https://nrich.maths.org/topics-mathematics-primary-students>

(Shape section)

Corbettmaths Primary – Perimeter / Area / Angles Sheets

Printable question sheets with answers.

<https://corbettmathsprimary.com/content/>

Year 7+

Khan Academy – 6th Grade Geometry Units

Perfect for perimeter, area, volume, nets and angles.

<https://www.khanacademy.org/math/cc-sixth-grade-math>

Corbettmaths – Geometry & Measure Worksheets (Secondary)

For more advanced angles, circles, area & volume.

<https://corbettmaths.com/contents/>

TOPIC 6: PATTERNS & ALGEBRA (EARLY)

Year 4–5

Khan Academy – Patterns & Sequences (Get Ready for 4th Grade)

Great for simple patterns and early algebra thinking.

<https://www.khanacademy.org/math/get-ready-for-4th-grade>

Khan Academy – Intro to Multiplication / Arrays (Grade 3)

Good bridge from repeated addition to algebraic thinking.

<https://www.khanacademy.org/math/cc-third-grade-math/intro-to-multiplication>

Year 6–7

Khan Academy – Variables & Expressions (Grade 6)

Foundational content for selective algebra and word-to-equation translation.

<https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-expressions-and-variables>

Transum – Algebra Topic

Simple exercises like algebraic substitution, expressions, sequences at multiple levels.

https://www.transum.org/Software/Transum_Topics.asp (click Algebra)

Corbettmaths – Basic Algebra Worksheets

Use lower-level algebra sheets (collecting like terms, simple equations).

<https://corbettmaths.com/contents/>

PRINTABLE DRILL SHEET TEMPLATE (BY TOPIC)

Print several copies of this page for each topic.

BACK-TO-BASICS DRILL SHEET™

Name: _____ Week of: ___ / ___ / ___

Topic: _____ (e.g. Fractions Basics, Times Tables, Area)

Source & Link: _____

(e.g. <https://corbettmathsprimary.com/content/ - Fractions>)

A. Today's Questions

Date	Questions attempted (e.g. Q1–10 from worksheet)	Time spent	How many correct first try?
Mon			
Tue			
Wed			
Thu			
Fri			

B. Mistake Review (most important part)

1. One mistake I kept making:

2. Why did I make it?

- Rushed
- Misread question
- Didn't know method
- Careless

3. What I'll do differently tomorrow:

Parents can staple this in front of a printed worksheet or use it as a cover page for online sets.

PARENT SUMMARY: HOW TO "REBUILD FOUNDATIONS" IN 4 WEEKS

Use this as a simple plan you can tell parents:

Week 1–2

- **Pick 1–2 weak topics**
- **Do 10–15 basic questions per day, 5 days a week, using the links given**
- **Use the Drill Sheet** to track and review mistakes

Week 3–4

Either:

- stay on same topics and increase difficulty slightly, **or**
- keep one topic and add a new weak area

The goal isn't to finish the entire internet.

It's to have a clear, reliable place to go whenever a child's trial test reveals:

"We've overreached. Time to go back to basics in this topic."

**The Back-to-Basics Drill Sheets (By Topic)TM
give parents that map:**

- **What to practise**
- **How much**
- **Exactly where to click to get started**