

# BACK-TO-BASICS DRILL SHEETS (BY TOPIC)

A clear place to rebuild maths  
foundations, year by year



# WHY "BACK TO BASICS" MATTERS

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## 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)

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## 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

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*(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](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)

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### 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](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](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

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## 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](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](https://www.transum.org/Software/Transum_Topics.asp)

# TOPIC 4: WORD PROBLEMS & REASONING

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*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/](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

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## 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)

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## 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](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:

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2. Why did I make it?

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

3. What I'll do differently tomorrow:

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*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

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*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)<sup>™</sup>**

**give parents that map:**

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