Spark Minds

LEVEL 1 - FOUNDATION

STUDENT KIT

LEARN • THINK • EXCEL

Student Name	_____
Grade	_____
Batch	_____
Start Date	_____

Mentor: CA Anchal Garg | Founder & Certified Vedic Maths Trainer
+91 8950531003 • sparkminds2509@gmail.com
www.sparkmindslearning.in

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MY SPARK MINDS JOURNEY

Complete a session + assigned practice, then colour the star or ask your mentor to add a sticker.

SESSION 1 Number Sense & Mental Maths	**SESSION 2** Complements	**SESSION 3** Fast Additio	**SESSION 4** Fast Subtraction
SESSION 5 Multiplication Building Blocks	**SESSION 6** Special Multip	**SESSION 7** Nikhilam - Introduction	**SESSION 8** Nikhilam - Above & Below Base
SESSION 9 Urdhva Tiryagbhyam - Intr uctio	**SESSION 10** Easy Division & Divisibility	**SESSION 11** Mixed Mental Maths & Spee Traini g	**SESSION 12** Revision & Level 1 Assessment

12 STARS COMPLETED = LEVEL 1 JOURNEY COMPLETE!

My proudest improvement: _____

The method I enjoyed most: _____

My next goal: _____

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MY STARTING SPEED CHECK

Solve mentally where possible. Your mentor will record this as a starting point—not as a test result.

10-question diagnostic

1. 8 + 7 = ____
2. 41 + 29 = ____
3. 75 − 38 = ____
4. 9 × 7 = ____
5. 24 × 5 = ____
6. 32 × 11 = ____
7. Complement of 63 to 100 = ____
8. Is 324 divisible by 9? ____
9. 98 × 97 = ____
10. 23 × 14 = ____

STARTING SCORE: Time: _____ Correct: _____ / 10 One goal for Level 1: _____

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SESSION 1

Number Sense & Mental Maths

TODAY I WILL LEARN: split numbers by place value and calculate from left to right.

LEARN THE METHOD

KEY IDEA: Split a number into thousands, hundreds, tens and ones. Calculate from the largest place first.

SOLVED EXAMPLES

3,482 = 3,000 + 400 + 80 + 2

46 + 27 = 40 + 20 + 6 + 7 = 73.

MENTOR CHECK: Explain the method aloud before moving to practice. Mark ✓ when ready: ☐

A. Warm-Up

1. Write 7185 in expanded form.
_____
_____

2. 57 + 24 = _____
_____
_____

3. 398 − 29 = _____
_____
_____

4. Write 6440 in expanded form.
_____
_____

5. 82 + 44 = _____
_____
_____

6. 464 − 97 = _____
_____
_____

7. Write 5368 in expanded form.
_____
_____

8. 82 + 59 = _____
_____
_____

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SESSION 3

Fast Addition — Practice

TODAY I WILL LEARN: solve carefully, then work independently

B. Guided Skill Builder

1. 58 + 203 = _____

2. 390 + 264 + 165 = _____

3. 163 + 43 = _____

4. 149 + 51 + 335 = _____

5. 213 + 25[illegible] = _____

6. 105 + 34[illegible]287 = _____

7. 276 + 383 = _____

8. 214 + 123 + 83 = _____

9. 188 + 375 = _____

10. 122 + 229 + 295 = _____

11. 3[illegible] + 235 = _____

12. 180 + 124 [illegible]9 = _____

C. Try It Yourself

1. 30 + 213 = _____

2. 363 + 154 + 140 = _____

3. 171 + 233 = _____

4. 351 + 227 + 54 = _____

5. 186 + 93 = _____

6. 18 + 32 + 199 = _____

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SESSION 7

Nikhilam — Introduction

TODAY I WILL LEARN: multiply numbers just below a base such as 10 or 100.

LEARN THE METHOD

KEY IDEA: Write each deficiency from the base. Cross-subtract for the left part; multiply deficiencies for the right part. Keep as many right-side digits as there are zeros in the base.

SOLVED EXAMPLES

97 × 96: deficiencies 3 and 4; left 93, right 12; answer 9,312.

MENTOR CHECK Explain the method aloud before moving to practice. Mark ✓ when ready: ☐

A. Warm-Up

1. 3 × 9 = _____

2. 7 × 5 = _____

3. 5 × 2 = _____

4. 7 × 7 = _____

5. 93 × 84 = _____

6. 97 × 94 = _____

7. 92 × 92 = _____

8. 98 × 86 = _____

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