

SUBTRACTION WITHIN 10 PROGRESS MONITORING

One skill, start to finish: the IEP goal, six ten-problem probe forms, and a graph scaled to the probe. Vertical, untimed. Fillable PDF.

SUBTRACTION TO 10 Subtraction Within 10 – Goal and Directions

Goal, baseline, directions and benchmarks for one skill. Untimed; score is problems correct out of 10.

Ten subtraction facts with minuends from 1 to 10 and differences from 0 to 10, no repeats within a form, in random order, in vertical format.

Sample goal — Inventor; edit every bracket to fit the student
By [annual review date], when given 10 subtraction problems within 10, [Student] will write correct answers to 8 of 10 problems on 3 consecutive weekly probes, as measured by teacher-scored subtraction probes.

BY (DATE) CRITERION (SCORE OUT OF 10, OR PERCENT)

GIVEN (CONDITION: WHAT IS SHOWN, ANY ALLOWED SUPPORT) ON ____ OF ____ CONSECUTIVE PROBES

STUDENT WILL (THE BEHAVIOR, IN THE WORDS OF THE PROBE) AS MEASURED BY (THIS PROBE: SUBTRACTION TO 10, FORMS A-F, PAGE 5-10)

Baseline: give Forms A, B and C on three days and take the middle score

BENCHMARK	TARGET DATE	TARGET SCORE	ACTUAL SCORE	MET?

Giving and scoring the probe

- ☐ Same administration as the addition probe.
- ☐ Correct the right difference under the line. A subtraction written as an addition (the two numbers added) is an error and a teaching rete.
- ☐ If addition within 10 is not yet at criterion, do not write a subtraction goal; monitor subtraction monthly instead.
- ☐ Untimed. Let the student finish all ten.

SUBTRACTION TO 10 Subtraction Within 10 – Form A

Solve each problem. Write the answer under the line. Untimed.

NAME _____ DATE _____ FORM **A** untimed - 10 items

IEP GOAL THIS PROBE MEASURES
Sample: By [annual review date], when given 10 subtraction problems within 10, [Student] will write correct answers to 8 of 10 problems on 3 consecutive weekly probes, as measured by teacher-scored subtraction probes.
GOAL AS WRITTEN FOR THIS STUDENT (TYPE IT ONCE, THEN PRINT THE FORM)

$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ - 6 \\ \hline \end{array}$
$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ - 0 \\ \hline \end{array}$	$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$

SUBTRACTION TO 10 Subtraction Within 10 – Data Log and Graph

One row per probe. Three points in a row under the aim line is a decision, not a feeling change the teaching and write what changed in the notes.

STUDENT _____ CRITERION / AIM _____ GOAL DATE _____

CORRECT OUT OF 10 - DRAW THE AIM LINE FROM THE BASELINE TO THE CRITERION FIRST, THEN PLOT EACH WEEK

WEEK	1	2	3	4	5	6	7	8	9	10	11	12

Probe (week)

#	DATE	FORM	CORRECT	ERRORS	SCORES USED ON GRAPH	NOTES (CONDITIONS, WHAT WAS RETEACHING)

SUBTRACTION TO 10 Subtraction Within 10 – Caseload Summary

Every student on this goal, on one grid. Twelve rows, eight probes, one decision column.

TEACHER / CASE MANAGER _____ SKILL (AS THE GOAL WORDS IT) _____ MARKING PERIOD _____

STUDENT	BASLINE	CRITERION	P1	P2	P3	P4	P5	P6	P7	P8	TREND	DECISION THIS MONTH

How to fill it

- ☐ One row per student who has a goal on this skill.
- ☐ Baseline is the median of the first three probes.
- ☐ One column per weekly probe; write the score out of 10, not a percent, so the rows compare.
- ☐ Trend up, flat or down over the last four probes.
- ☐ That word, not the last score, is what the decision

What it is for

Grouping: When six students sit on the same goal, the individual graphs answer "how is this child doing" and nothing answers "who needs the same fifteen minutes." Rows that are flat together are a group; a row that is flat alone is a different question. Take this page to the data meeting instead of ten

EXAMPLE A Filled-In Data Log (Invented Student)

Priya is invented. Twelve weekly probes on subtraction within 10, the aim line, the change that three low points forced, and the criterion being met.

The goal, as written for Priya, first grade (invented)
By May 20, when given 10 subtraction problems within 10, Priya will write correct answers to 8 of 10 problems on 3 consecutive weekly probes, as measured by teacher-scored subtraction probes (forms A-F).

#	DATE	FORM	CORRECT	ERRORS	GRAPHED	NOTES
1	9/8	A	3	7	3	baseline
2	9/9	B	3	7	3	baseline
3	9/10	C	5	5	5	baseline (median of 3, 3, 5 = 3)
4	9/17	D	4	6	4	answered 4 - 7 as 3; subtracted the smaller from the larger same error twice
5	9/24	E	4	6	4	3 under aim line; added a number line and a take-away model
6	10/1	F	3	7	3	misses and the minus sign and minus-all facts
7	10/8	A	5	5	5	reverted error gone
8	10/15	B	6	4	6	misses and the minus sign and minus-all facts
9	10/23	C	7	3	7	misses and the minus sign and minus-all facts
10	10/29	D	8	2	8	—
11	11/6	E	8	2	8	criterion met, 1 of 3
12	11/12	F	8	2	8	criterion met, 2 of 3

How to read the log

- ☐ Baseline was the median of three forms on three days: 3, 3, 5, so 3. Not the average, not the best.
- ☐ The aim line runs from 3 in week 1 to 8 at the goal date. Probes 4, 5 and 6 (4, 4, 3) sat under it three in a row, so the teaching changed and the change is written on the row.
- ☐ The notes name the error, not just the count. Subtracting the smaller number from the larger regardless of order is a specific misconception with a specific fix; a score alone would not have said that.
- ☐ Criterion met on probes 11 and 12; one more consecutive probe at 8 or better and the goal is met. The next goal is mixed addition and subtraction within 20.

PROGRESS MONITORING How This Pack Works

Goal, baseline, weekly probe, graph, decision. Six steps, one skill.

A progress monitoring goal needs a thing to count and a page to count it on. This file is both, for one skill: a goal written in the probe's own words, 6 equivalent forms of the probe that measures it, and a graph scaled to it. Nothing has to be built or found.

- Baseline.** Give Forms A, B and C on three different days. The middle score of the three is the baseline; write it on the goal page.
- Write the goal.** From the six-part frame on the goal page. Start from the sample and change every bracket: the date, the condition, the criterion, the number of probes.
- Probe once a week** with the forms in rotation (A, B, C, D, E, F, A...). Never the same form two weeks running. Every form is ten items, untimed.
- Log and plot** the score the same day. Draw the aim line first, from the baseline on the left to the criterion at the goal date on the right, then plot each week's dot.
- Decide from the graph.** Three dots in a row under the aim line: change the teaching this week and write the change on the log. Three in a row over it: raise the target.
- Report from the log.** The log gives the progress report its numbers: baseline, the last two scores, and which facts keep coming back wrong.

The weekly routine, about five minutes

- ☐ Monday: pull the next form in the rotation (A, B, C, D, E, F, A...).
- ☐ Any day: give the probe one-to-one, untimed; ten items takes a few minutes.
- ☐ Same day: score it, log the row, plot the point, look at the last three points.
- ☐ Friday: if three points sit under the aim line, write the change you are making on the log.

What this probe is not
It is not a norm-referenced test and it carries no homework score. The sample goal uses invented

Print and prep

- ☐ Print one copy per student per week: the student writes the answers on the form and that same sheet is the one you score.
- ☐ The teacher copy is the one you mark on; the student copy stays clean.
- ☐ Keep the goal page and the graph page for each student as the front of the data folder; type into them or write on them.
- ☐ The caseload page is one grid for every student on this goal; print it once a month.

Equivalent forms, and why it matters
Every form has ten problems drawn the same way, in vertical format, with no problems repeated within a

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- 2 **Write the goal** from the six-part frame on the goal page. Start from the sample and change every bracket: the date, the condition, the criterion, the number of probes.
- 3 **Probe once a week** with the forms in rotation (A, B, C, D, E, F, A...). Never the same form two weeks running. Every form is ten items, untimed.
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- ☐ Keep the goal page and the graph page for each student at the front of the data folder; type into them or write on them.
- ☐ The caseload page is one grid for every student on this goal: print it once a month.

What this probe is not

It is not a norm-referenced test and it carries no benchmark score. The sample goal uses invented criteria in brackets; your team sets the real ones from the baseline and the student's IEP. Every form is untimed and ten items long, so a score of 8 means the same thing on every form, and a student is never scored on speed.

Equivalent forms, and why it matters

Every form has ten problems drawn the same way, vertical, with no problem repeated within a form. Forms are drawn independently, so a fact can recur across the set — which is what a fact probe should do: the facts are the fixed set being learned. A score on one form means the same as a score on another, so the line on the graph is the student, not the paper. Rotate the forms and the page cannot be memorized.

Subtraction Within 10 – Goal and Directions

Goal, baseline, directions and benchmarks for one skill. Untimed; score is problems correct out of 10.

Ten subtraction facts with minuends from 1 to 10 and differences from 0 to 10, no repeats within a form, in random order, in vertical format.

Sample goal — invented; edit every bracket to fit the student

By [annual review date], when given 10 subtraction problems within 10, [Student] will write correct answers to [8 of 10] problems on [3] consecutive weekly probes, as measured by teacher-scored subtraction probes.

BY (DATE)

CRITERION (SCORE OUT OF 10, OR PERCENT)

GIVEN (CONDITION: WHAT IS SHOWN, ANY ALLOWED SUPPORT)

ON ____ OF ____ CONSECUTIVE PROBES

STUDENT WILL (THE BEHAVIOR, IN THE WORDS OF THE PROBE)

AS MEASURED BY (THIS PROBE: SUBTRACTION TO 10, FORMS A–F, PAGE 5–10)

Baseline: give Forms A, B and C on three days and take the middle score

BASILINE PROBE 1	BASILINE PROBE 2	BASILINE PROBE 3	MEDIAN (THE BASELINE)

Benchmarks toward the goal

BENCHMARK	TARGET DATE	TARGET SCORE	ACTUAL SCORE	MET?

Giving and scoring the probe

- ☐ Same administration as the addition probe.
- ☐ Correct: the right difference under the line. A subtraction written as an addition (the two numbers added) is an error and a teaching note.
- ☐ If addition within 10 is not yet at criterion, do not write a subtraction goal; monitor subtraction monthly instead.
- ☐ Untimed. Let the student finish all ten.

Scoring rules for this student (accepted answers, reversals, supports allowed)

.....

.....

.....

What the errors say to reteach (carry over from the log)

.....

.....

.....

Solve each problem. Write the answer under the line. · Untimed.

NAME

DATE

FORM

A untimed · 10 items**IEP GOAL THIS PROBE MEASURES**

Sample: By [annual review date], when given 10 subtraction problems within 10, [Student] will write correct answers to [8 of 10] problems on [3] consecutive weekly probes, as measured by teacher-scored subtraction probes.

GOAL AS WRITTEN FOR THIS STUDENT (TYPE IT ONCE, THEN PRINT THE FORM)

$$\begin{array}{r} 10 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

TEACHER COPY: MARK EACH ITEM ✓ OR X, THEN TOTAL

1

2

3

4

5

6

7

8

9

10

Problems correct. Self-corrections count as correct. Write the score on the data log the same day.

Correct _____ / 10

Solve each problem. Write the answer under the line. · Untimed.

NAME

DATE

FORM

B untimed · 10 items

IEP GOAL THIS PROBE MEASURES

Sample: By [annual review date], when given 10 subtraction problems within 10, [Student] will write correct answers to [8 of 10] problems on [3] consecutive weekly probes, as measured by teacher-scored subtraction probes.

GOAL AS WRITTEN FOR THIS STUDENT (TYPE IT ONCE, THEN PRINT THE FORM)

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$$\begin{array}{r} 10 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 7 \\ \hline \end{array}$$

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1

2

3

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Correct _____ / 10

Subtraction Within 10 – Data Log and Graph

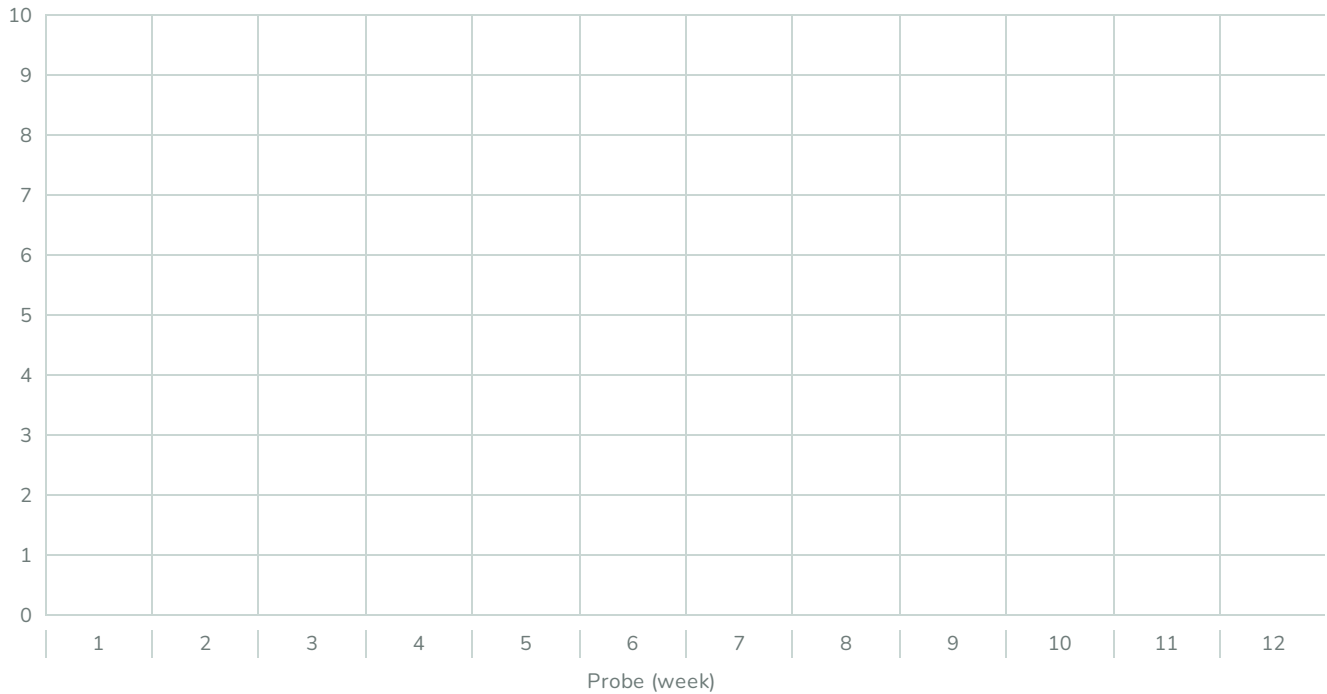
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STUDENT

CRITERION / AIM

GOAL DATE

CORRECT OUT OF 10 · DRAW THE AIM LINE FROM THE BASELINE TO THE CRITERION FIRST, THEN PLOT EACH WEEK



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Every student on this goal, on one grid. Twelve rows, eight probes, one decision column.

TEACHER / CASE MANAGER

SKILL (AS THE GOAL WORDS IT)

MARKING PERIOD

STUDENT	BASELINE	CRITERION	P1	P2	P3	P4	P5	P6	P7	P8	TREND	DECISION THIS MONTH

How to fill it

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- ☐ One column per weekly probe; write the score out of 10, not a percent, so the rows compare.
- ☐ Trend: up, flat or down over the last four probes. That word, not the last score, is what the decision follows.
- ☐ Decision: keep going, change the teaching, or raise the target. A blank decision on a flat row is the thing this page exists to catch.

What it is for

Grouping. When six students sit on the same goal, the individual graphs answer “how is this child doing” and nothing answers “who needs the same fifteen minutes.” Rows that are flat together are a group; a row that is flat alone is a different question. Take this page to the data meeting instead of ten folders.

EXAMPLE

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7	10/8	A	5	5	5	–
8	10/15	B	6	4	6	reversal error gone
9	10/22	C	7	3	7	misses are the minus-zero and minus-all facts
10	10/29	D	8	2	8	–
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- ☐ Criterion met on probes 11 and 12; one more consecutive probe at 8 or better and the goal is met. The next goal is mixed addition and subtraction within 20.

The progress report sentence this log produces

“On weekly subtraction probes (10 facts within 10, vertical, untimed), Priya wrote correct answers to 3 of 10 at baseline in September and 8 of 10 on each of the two most recent probes in November. Progress is sufficient to meet the goal of 8 of 10 on three consecutive probes by May.” Every number in it is on the log above; nothing is from memory.