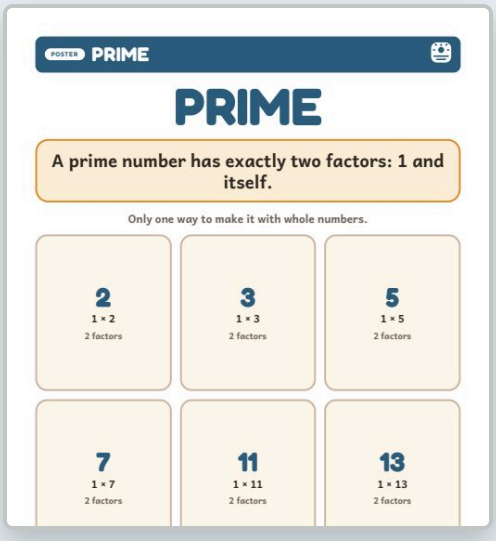
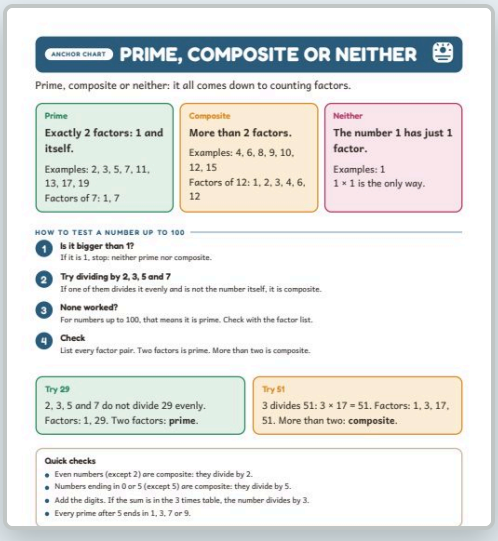
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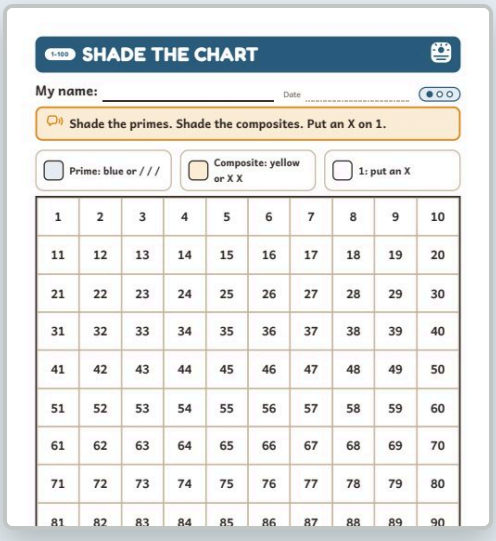
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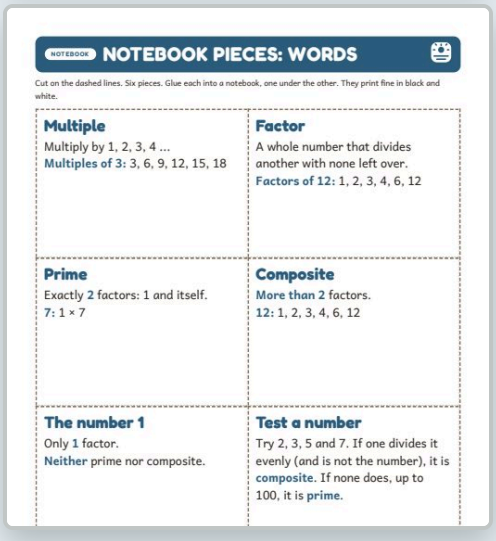
PRIME AND COMPOSITE ANCHOR CHART

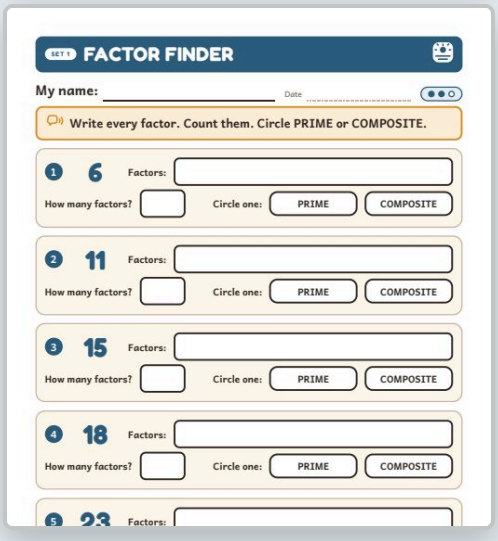
Vocabulary posters, a 1–100 chart to shade, student-size notebook pieces and practice with room to work. Fillable PDF.

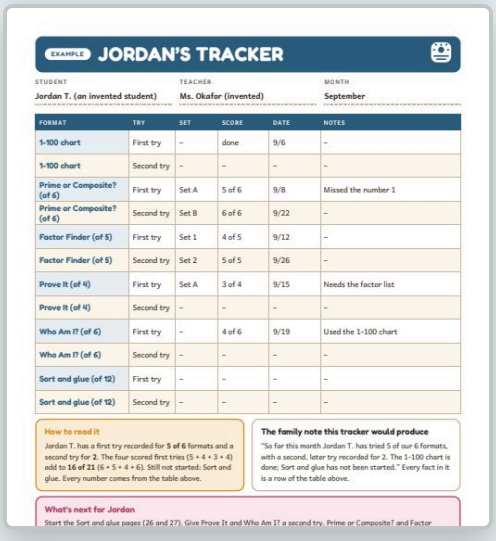












Fillable PDF | 39 Pages | 5 Posters | 1–100 Chart

BRIGHT PATH SPED

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PREVIEW

HOW IT WORKS

HOW TO READ A PAGE

THE PARTS OF A PAGE

- ☐ **PRIME / COMPOSITE / NEITHER**
  Circle one. Count the factors if you are not sure.
- ☐ **The factor box**
  Write every factor, smallest to largest, then count them.
- ☐ **The answer box**
  A small square for one number.
- ☐ **Glue here**
  The sorting mat has three columns for the cut-out cards.

THE FORMATS

FORMAT	WHAT THE STUDENT DOES	WHAT IT ASKS FOR
Prime or Composite?	Circle one	Decide for 6 numbers. Level 1.
Factor Finder	Write and circle	List every factor, count, decide. Level 2.
Prove It	Write a reason	Find a factor or write none, then explain. Level 3.
Who Am I?	Write a number	Use clues to find one number. Level 3.
Sort and glue	Cut and glue	12 cards onto a 3-column mat. Level 2.

Two numbers, worked

7: factors 1, 7, **2** factors, so **prime**. **12**: factors 1, 2, 3, 4, 6, 12, **6** factors, so **composite**. **1**: just 1 factor, so **neither**. Answer keys (pages 28 to 30) list every item this way.

Printing and the type-in fields

Every student page prints clean in black and white and is pencil work. In any PDF reader, click a name line or a tracker cell to type, then save. This is a PDF, not a slideshow or word-processor file.

The dots in the corner

One dot is the easiest, three is the most thinking. The dots are the only code for how hard a page is, never a word printed on a student page.

Color or black and white

Posters and the chart key print in color or gray. For the chart, students can use two colors or two patterns, so crayons are not required.

Practice, not a graded test

Nothing is timed. The tracker is for your own notes on which format a student still finds hard.

PREVIEW

POSTER **MULTIPLE**

MULTIPLE

A multiple is what you get when you multiply a number by 1, 2, 3, 4 and so on.

Skip count and you are listing multiples.

Multiples of 3
3, 6, 9, 12, 15, 18, 21, 24

Multiples of 4
4, 8, 12, 16, 20, 24, 28, 32

Multiples of 5
5, 10, 15, 20, 25, 30, 35, 40

Multiples of 10
10, 20, 30, 40, 50, 60, 70, 80

PREVIEW

Every number is a multiple of itself.

POSTER **PRIME**

PRIME

A prime number has exactly two factors: 1 and itself.

Only one way to make it with whole numbers.

2 1 × 2 2 factors	**3** 1 × 3 2 factors	**5** 1 × 5 2 factors
7 1 × 7 2 factors	**11** 1 × 11 2 factors	**13** 1 × 13 2 factors

2 is the only even prime number.

PREVIEW

POSTER THE NUMBER 1

THE NUMBER 1

1 is neither prime nor composite.

It has just one factor: 1.

1

1 × 1

1 factor

Prime?

A prime has exactly 2 factors.

1 has only 1. Not prime.

Composite?

A composite has more than 2.

1 has only 1. Not composite.

PREVIEW

A number has to be bigger than 1 to be prime or composite.

FACTOR TABLE

FACTORS FROM 1 TO 30

Every number from 1 to 30 with all of its factors. Count the factors to see the kind.

NUMBER	FACTORS	HOW MANY	KIND
1	1	1	Neither
2	1, 2	2	Prime
3	1, 3	2	Prime
4	1, 2, 4	3	Composite
5	1, 5	2	Prime
6	1, 2, 3, 6	4	Composite
7	1, 7	2	Prime
8	1, 2, 4, 8	4	Composite
9	1, 3, 9	3	Composite
10	1, 2, 5, 10	4	Composite
11	1, 11	2	Prime
12	1, 2, 3, 4, 6, 12	6	Composite
13	1, 13	2	Prime
14	1, 2, 7, 14	4	Composite
15	1, 3, 5, 15	4	Composite

NUMBER	FACTORS	HOW MANY	KIND
16	1, 2, 4, 8, 16	5	Composite
17	1, 17	2	Prime
18	1, 2, 3, 6, 9, 18	6	Composite
19	1, 19	2	Prime
20	1, 2, 4, 5, 10, 20	6	Composite
21	1, 3, 7, 21	4	Composite
22	1, 2, 11, 22	4	Composite
23	1, 23	2	Prime
24	1, 2, 3, 4, 6, 8, 12, 24	8	Composite
25	1, 5, 25	3	Composite
26	1, 2, 13, 26	4	Composite
27	1, 3, 9, 27	4	Composite
28	1, 2, 4, 7, 14, 28	6	Composite
29	1, 29	2	Prime
30	1, 2, 3, 5, 6, 10, 15, 30	8	Composite

PREVIEW

What the table shows

From 1 to 30 there are **10** primes (2, 3, 5, 7, 11, 13, 17, 19, 23, 29), **19** composites and the number **1**, which is neither. 10 + 19 + 1 = 30.

1-100 WHAT DO YOU NOTICE?

My name: _____ Date .....

Look at your chart. Count. Then write what you notice.

How many primes did you shade? ☐ **Composites?** ☐

Neither? ☐

What do you notice about the even numbers?

_____

_____

Which prime number is even?

_____

Look at the primes after 5. What do their ones digits look like?

_____

_____

Write one more thing you notice.

_____

_____

PREVIEW

NOTEBOOK NOTEBOOK PIECES: WORDS

Cut on the dashed lines. Six pieces. Glue each into a notebook, one under the other. They print fine in black and white.

Multiple

Multiply by 1, 2, 3, 4 …

Multiples of 3: 3, 6, 9, 12, 15, 18

Factor

A whole number that divides another with none left over.

Factors of 12: 1, 2, 3, 4, 6, 12

Prime

Exactly **2** factors: 1 and itself.

7: 1 × 7

Composite

More than 2 factors.

12: 1, 2, 3, 4, 6, 12

The number 1

Only **1** factor.

Neither prime nor composite.

Test a number

Try 2, 3, 5 and 7. If one divides it evenly (and is not the number), it is **composite**. If none does, up to 100, it is **prime**.

PREVIEW

SET A PRIME OR COMPOSITE?

My name: _____ Date .....

Look at each number. Circle PRIME, COMPOSITE or NEITHER.

1 **13**

My factors: _____

PRIME COMPOSITE NEITHER

2 **21**

My factors: _____

PRIME COMPOSITE NEITHER

3 **1**

My factors: _____

PRIME COMPOSITE NEITHER

4 **29**

My factors: _____

PRIME COMPOSITE NEITHER

5 **36**

My factors: _____

PRIME COMPOSITE NEITHER

6 **17**

My factors: _____

PRIME COMPOSITE NEITHER

PREVIEW

SET 1 FACTOR FINDER

My name: _____ Date .....

Write every factor. Count them. Circle PRIME or COMPOSITE.

1 **6** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

2 **11** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

3 **15** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

4 **18** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

5 **23** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

PREVIEW

SET 3 FACTOR FINDER

My name: _____ Date .....

Write every factor. Count them. Circle PRIME or COMPOSITE.

1 **36** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

2 **47** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

3 **48** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

4 **51** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

5 **59** Factors: _____

How many factors? ____ Circle one: PRIME COMPOSITE

PREVIEW

SET B PROVE IT

My name: _____ Date .....

Find a factor, or write none. Circle one. Tell how you know.

1 **51** A factor that is not 1 or 51: _____

Circle one: PRIME COMPOSITE I know because

_____

2 **61** A factor that is not 1 or 61: _____

Circle one: PRIME COMPOSITE I know because

_____

3 **77** A factor that is not 1 or 77: _____

Circle one: PRIME COMPOSITE I know because

_____

4 **87** A factor that is not 1 or 87: _____

Circle one: PRIME COMPOSITE I know because

_____

PREVIEW

SORT NUMBER CARDS

My name: _____ Date .....

Cut out the 12 number cards on the dashed lines.

1	2	7	9
15	21	29	39
47	51	57	91

PREVIEW

Next: glue each card on the sorting mat.

ANSWER KEY

ANSWER KEY: SORTING, PROVE IT, WHO AM I?

Computed from the same numbers every practice page uses. A prove-it answer may name any correct factor; the smallest is shown.

PRIME OR COMPOSITE? (SETS A, B)

ITEM	NUMBER	ANSWER
Set A-1	13	PRIME
Set A-2	21	COMPOSITE
Set A-3	1	NEITHER
Set A-4	29	PRIME
Set A-5	36	COMPOSITE
Set A-6	17	PRIME
Set B-1	2	PRIME
Set B-2	27	COMPOSITE
Set B-3	91	COMPOSITE
Set B-4	41	PRIME
Set B-5	100	COMPOSITE
Set B-6	53	PRIME

PROVE IT (SETS A, B)

ITEM	NUMBER	A FACTOR	ANSWER
Set A-1	39	3 (3 × 13)	COMPOSITE
Set A-2	41	none	PRIME
Set A-3	57	3 (3 × 19)	COMPOSITE
Set A-4	63	3 (3 × 21)	COMPOSITE
Set B-1	51	3 (3 × 17)	COMPOSITE
Set B-2	61	none	PRIME
Set B-3	77	7 (7 × 11)	COMPOSITE
Set B-4	87	3 (3 × 29)	COMPOSITE

WHO AM I?

#	CLUES	NUMBER
1	I am prime. I am between 20 and 30. My digits add to 11.	29
2	I am the only even prime number.	2
3	I have exactly 3 factors. I am between 5 and 20.	9
4	I am neither prime nor composite.	1
5	I am a multiple of 6 and a multiple of 7. I am less than 50.	42
6	I am prime. I am between 60 and 70. My digits add to 7.	61

PREVIEW

ANSWER KEY: 1-100 CHART

The shade page (13) and the sieve page (15) should both end up like this chart. 25 + 74 + 1 = 100.

Prime (25) | Composite (74) | 1: neither

X	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

PREVIEW

What students may notice

Primes by row of ten: 4, 4, 2, 2, 3, 2, 2, 3, 2, 1 (25 in all). 2 is the only even prime. After 5, every prime ends in 1, 3, 7 or 9. The sieve leaves the same 25 numbers circled.

CLASS GRID

CLASS PROGRESS GRID

CLASS OR GROUP

MONTH

STUDENT	WORDS	CHART	PRIME OR COMP.	FACTORS	PROVE IT	NOTES

PREVIEW

How to fill this in

Write the date a student last did each part on their own, or a check mark if you prefer. Words is the vocabulary posters; Chart is the shade or sieve page.

Using it

A column with few dates is the part to open the next math talk with (page 34), so the whole class gets it.

MATH TALK WARM-UP

MATH TALK

TEACHER | DATE | NUMBER OF THE DAY

A whole-class warm-up on one number, a different setting from the seat pages. Everything below is a blank for your own wording.

1. **Show a number**
   Write it where everyone can see it. Point to the anchor chart (page 11).
2. **Guess first**
   Ask for a thumbs up for prime, down for composite. Do not say who is right.
3. **Find the factors**
   Class calls out factor pairs. Write them.
4. **Decide**
   Count the factors. Say the kind with the reason.

Sentence frames

- ____ is prime because its only factors are ____ and ____.
- ____ is composite because ____ × ____ = ____.
- 1 is neither because it has only ____ factor.

A number that fools people

Try 51. It looks prime, but 3 × 17 = 51, so it is composite.

TODAY WE ARE LOOKING FOR

WHAT WE NOTICED

WHAT WE WILL TRY TOMORROW

PREVIEW

PHRASE BANK

NOTES AND DISCUSSION STARTERS

Starters for noticing, discussing and writing the family note. Each is an observation with a blank, never a finished conclusion and never a score.

Vocabulary — noticing phrases

> Said that a prime number has exactly two factors on ____ (date).

> Used the word composite correctly when talking about ____.

Factors — noticing phrases

> Listed every factor pair of ____ without a prompt on ____ (date).

> Checked a number by dividing by 2, 3, 5 and 7.

Reasoning — noticing phrases

> Explained that 1 is neither prime nor composite using the number of factors.

> Found a factor that showed ____ is composite.

Patterns — noticing phrases

> Noticed on the 1-100 chart that ____.

> Used a pattern (even numbers, ending in 5) to rule out ____.

Discussion starters

> How do you know ____ is prime? Show me the factors.

> Is there a number that looks prime but is not? ____

Family note starters

> This week we studied prime and composite numbers. At school I saw ____ ____.

> A way to practice at home: ask whether a number on a sign is prime or composite.

PREVIEW

ORGANIZER

DIVIDER TABS

Six divider tabs and a spine label. The pieces touch edge to edge, so the cutting is a few straight lines.

POSTERS	CHARTS	NOTEBOOK
PRACTICE	KEYS	RECORDS

PRIME AND COMPOSITE · BRIGHT PATH SPED

PREVIEW

1. Cut along the dashed lines. Every line is straight: seven pieces.

2. Fold each tab on its top edge and tape it to a folder edge.

3. The spine label fits a one-inch binder. Trim it for a wider one.