

MATH SKETCH NOTES

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These 4th-grade math sketch notes (AKA doodle pages) are a powerful learning and teaching tool. They cover essential math concepts and procedures for students in a visually appealing way. You can use this resource to supplement any math curriculum, and they are perfect for previewing/pre-teaching or reviewing/reinforcing.

These sketch pages are like mini anchor charts that your students actively create and can be referred to in the future.

WHAT'S INCLUDED:

- Blank student note page
(two sizes: 8.5 x 11 & composition notebook size for INBs)
- Detailed answer key
- Step-by-step PowerPoint

GUIDED NOTE-TAKING

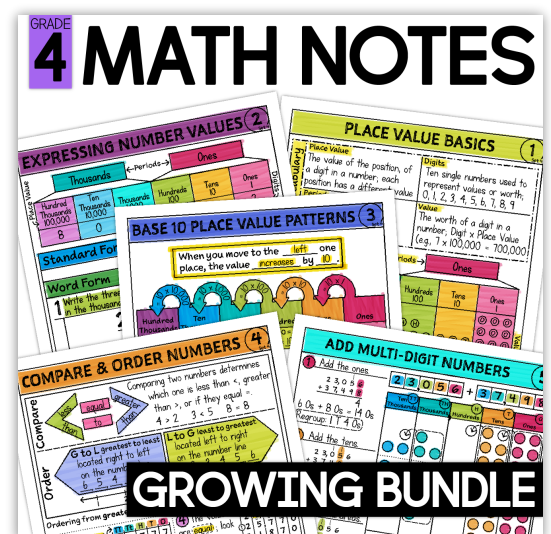
Guiding your students through the note-taking process is so easy and requires almost zero preparation!

1. PowerPoint: Each sketch note page comes with a step-by-step PowerPoint that you can use to guide your students as they complete their notes.
2. Document Camera: Use a document camera to project a blank copy of the notes. Use the answer key provided to complete the note page in front of your students.

WHY SKETCH?

Sketch notes present your students with a meaningful and engaging activity they will love. Doodle note-taking activates verbal and visual modalities to capture concepts. The whole brain is absorbed in hearing, synthesizing, and retaining ideas. This high level of engagement helps students retain the content and leaves little room for distraction.

GET THE BUNDLE!!!



MATH NOTES

ESTIMATION WITH ROUNDING (+/-) 9

Key Vocabulary

Estimation

The process of finding an approximate (close) value

Accuracy

How close a calculation is to the actual answer

"Friendly" Numbers

"Round" numbers that are easier to work with (300, 90, 8,000)

When to Estimate:

- ★ When an exact answer is not needed
- ★ When you need to compute a problem quickly
- ★ To check if your work/answers is reasonable

Cue Words:

approximately, about, around, almost, near

friendly #s



The **higher** you round, the **easier** the problem is, but your estimate will be **less accurate**.

The Friendly Scale

	1,000s	100s	10s
3,458 →	3,000	3,500	3,460
+ 2,920 →	3,000	2,900	2,920
6,378 →	6,000	6,400	6,380
	-378	-22	-2
7,642 →	8,000	7,600	7,640
- 2,394 →	2,000	2,400	2,390
5,248 →	6,000	5,200	6,380
	-752	-48	

less friendly #s



The **lower** you round, the **harder** the problem is, but your estimate will be **more accurate**.



The Accuracy Scale

GRADE 4

ESTIMATION WITH ROUNDING (+/-) 9

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The Friendly Scale

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When to Estimate:

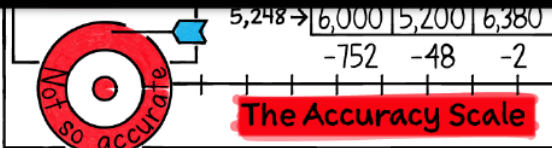
- ★ When an exact answer is not needed
- ★ When you need to compute a problem quickly
- ★ To check if your work/answers is reasonable

Cue Words:

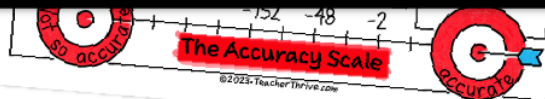
approximately, about, around, almost, near

friendly #s

2 SIZES: STANDARD US 8.5 × 11 & COMPOSITION NOTEBOOK



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STEP-BY-STEP POWERPOINT

ESTIMATION WITH ROUNDING (+/-) 9

key vocabulary

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approximately, about, around, almost, near

Scale

The **higher** you round, the **easier** the problem is, but your estimate will be **less accurate**.



	1,000s	100s	10s
5,158 →	5,000	5,500	3,460
+ 2,920 →	3,000	2,900	2,920
6,378 →	6,000	6,400	6,380
	-378	-22	-2
	1,000s	100s	10s
7,642 →	8,000	7,600	7,640
- 2,394 →	2,000	2,400	2,390
5,248 →	6,000	5,200	6,380
	-752	-48	-2

The Accuracy Scale



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ESTIMATION WITH ROUNDING (+/-) 9

Set 4

Key Vocabulary

Estimation

The process of finding an approximate (close) value

Accuracy

How close a calculation is to the actual answer

"Friendly" Numbers

"Round" numbers that are easier to work with (300, 90, 8,000)

When to Estimate:

- ★ When an exact answer is not needed
- ★ When you need to compute a problem quickly
- ★ To check if your work/answers is resonable

Cue Words:

approximately, about, around, almost, near

friendly #s

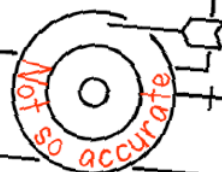


The higher you round, the easier the problem is, but your estimate will be less accurate.

DETAILED ANSWER KEY

6,378 →	6,000	6,400	6,380
	-378	-22	-2
7,642 →	8,000	7,600	7,640
-2,394 →	2,000	2,400	2,390
5,248 →	6,000	5,200	6,380
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The Accuracy Scale



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