

Small Group Strategies

A Guide for Use with Speak Agent Activities



Why use small groups?

1. Increase student engagement in learning.
2. Increase student use of mathematical language by getting ALL students involved in thinking, speaking, and listening.
3. Build student confidence in mathematics.
4. Deepen understanding by putting students in the role of explainer.
5. Teach vital collaboration skills in math.







What kinds of work can happen in small groups?

There is too much to list here! But below are four kinds of work we will highlight in this presentation:

1. Active thinking about the learning process
2. Peer teaching
3. Collaborative learning and discourse
4. Reflection, error analysis, and confidence-building



Four suggested strategy pairings:

	Speak Agent Activity	Strategy Pairing to Try
	Read Along	<u>KWL Charts</u>
	Drawing Board	<u>Each One, Teach One</u>
	Word Gallery	<u>Think-Pair-Share</u>
	Level Up	<u>Activity Reflection</u>



KWL Charts

A graphic organizer that helps students actively think about the learning process.

Pairs with:

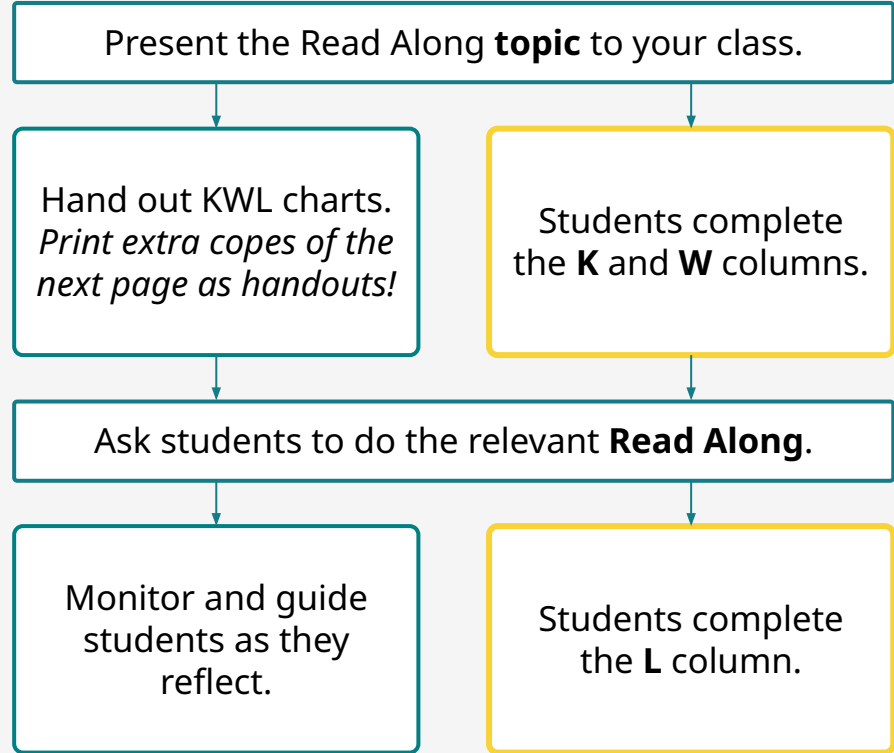


Read Along



Also works with: Word Gallery, Diagram It

HOW IT WORKS:



Name: _____

Story Topic: _____

Date: _____

**KNOW**

K

**WANT TO
KNOW**

W

LEARNED

L



Using KWL with Read Alongs

Before Speak Agent (K & W):

Students write down what they **k**now or **w**ant to know.

If the topic is fractions, a student might write:

K → I know fractions are parts of a whole;

W → I want to know how to add different fractions.

For linear equations, a student might write:

K → I know $y = mx + b$ is a line;

W → I want to know what slope really means.

After Speak Agent (L):

Students record new things they **l**earned.

If the topic is fractions, a student might write:

L → I learned that to add fractions, I need a common denominator.

For linear equations, a student might write:

L → I learned that slope is rise over run and shows steepness.



Each One, Teach One

A peer-teaching activity where students take turns teaching a concept or problem to a classmate.

Pairs with:

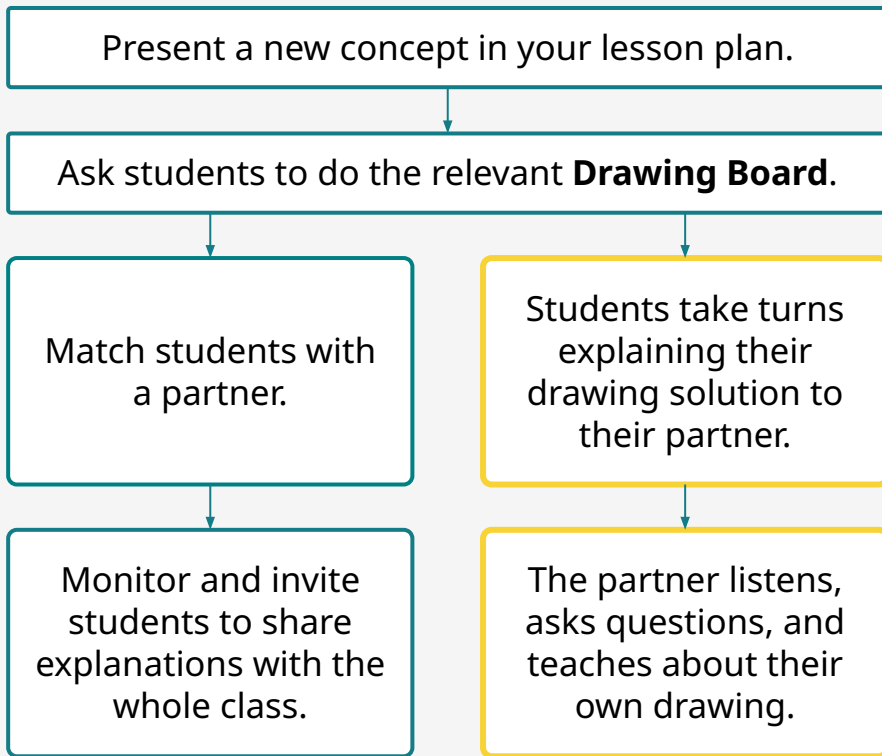


Drawing Board



Also works with: Level Up and Read Along.

HOW IT WORKS:





You're designing a park! Your drawing must include: two paths that never touch, two paths that cross at a square corner, and two lines that cross but do NOT form a square corner.

Draw parallel, perpendicular, and intersecting lines. Label what each one is.



Drawing Board

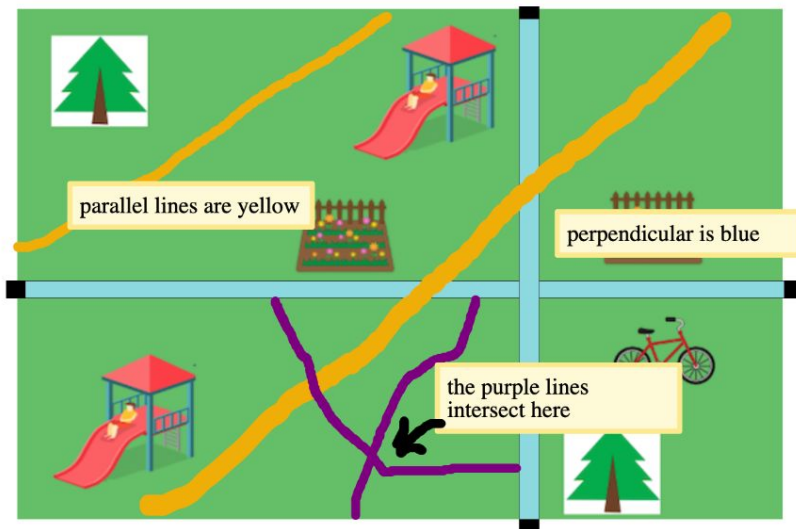
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? Activity Help

🔊 Sound: On

🔊 Narration: Medium

Select Language



Students can export their drawing to a PDF, if you find that helpful.



hint (3)



Print PDF



Share With Teacher

Think-Pair-Share

A collaborative learning strategy that engages all students in thinking, talking, and listening.

Pairs with:

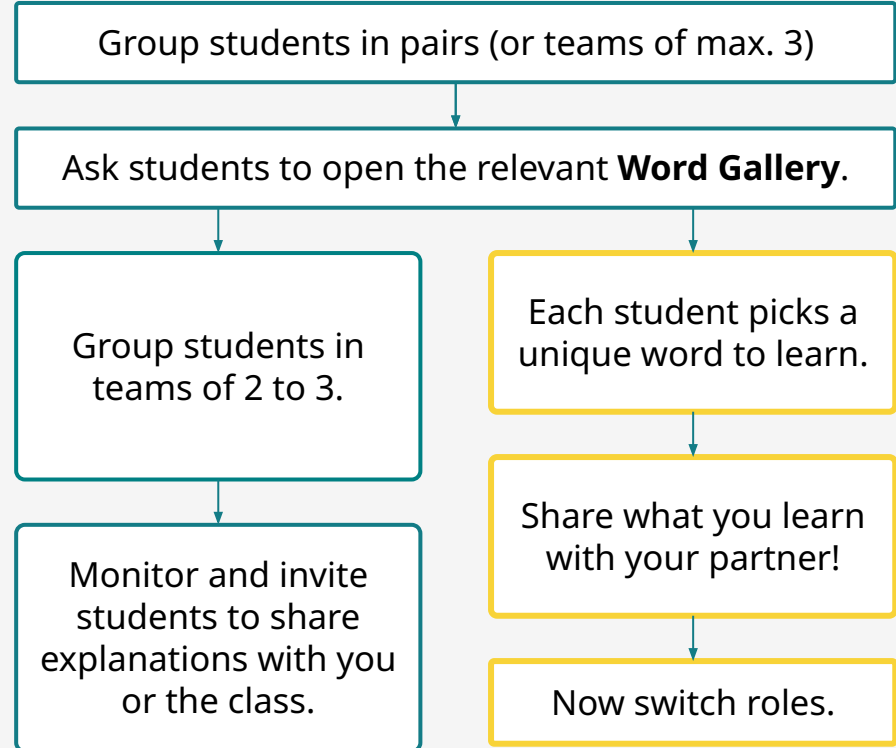


Word Gallery



Also works with: My Voice Questions, Vocab Lab

HOW IT WORKS:



Think-Pair-Share Prompts

What should students share with each other? Here are some ideas!

- What do you think the word means?
 - Explain the meaning in your own words.
 - Or, write down the meaning.
- What's an example of the word in the real world?
 - Can you draw your example?
- What are some related words?
 - Does the word have any opposites?
 - Is it made up of more than one word, like "place value?"
 - Does it sound like another word?
 - Are there words this word often goes with? For example, digits go with numbers, or length goes with width.



Activity Reflection

An exercise where students think back on a math activity they just completed and reflect on what they learned.

Pairs with:

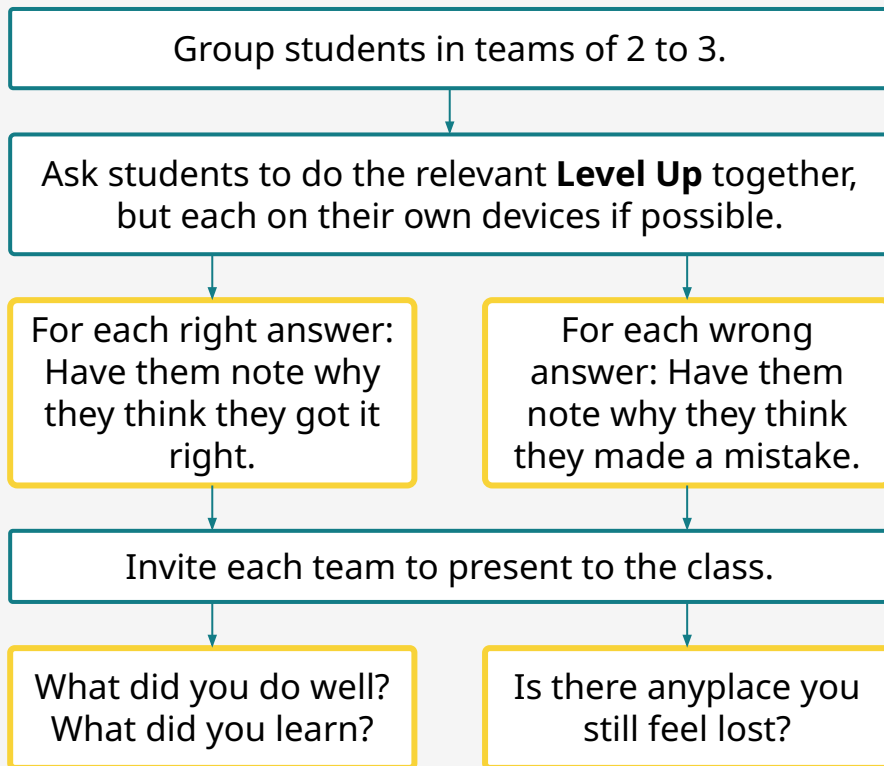


Level Up



Also works with: Read Along, Diagram It

HOW IT WORKS:





Level Up

Rounds



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? Activity Help

🔊 Sound: On

🔊 Narration: Slow

Select Language

Text Resize

AAAAA

2. What is the rule in this number pattern: 6, 10, 14, 18? 🔊

input	pattern	output
1	+3	4
2	+3	5
3	+3	6
4	+3	7
7	+3	10

A add 4 🔊

✗ multiply 4 🔊

C subtract 4 🔊



Look closely at how much each number goes up.

we said multiply instead of add. The difference between each number is always 4. If it was multiply, the number would go up.

The team should note down their error and then how they figured out the correct answer together.