

# Class Objectives



#### **OBJECTIVE 5**

Students will gain tips and tools to work with evidence-based math practices that teachers, coaches, and mentors can use in the classroom.

# Evidence Based Practices



Introduction

There are so many tips, tricks, and strategies out in the world that it can get overwhelming. Do they work? Yes, and sometimes no. That is my experience. It all depends on the execution as well as the timing, and the class. These are tools for the toolbox. :)

# tion +

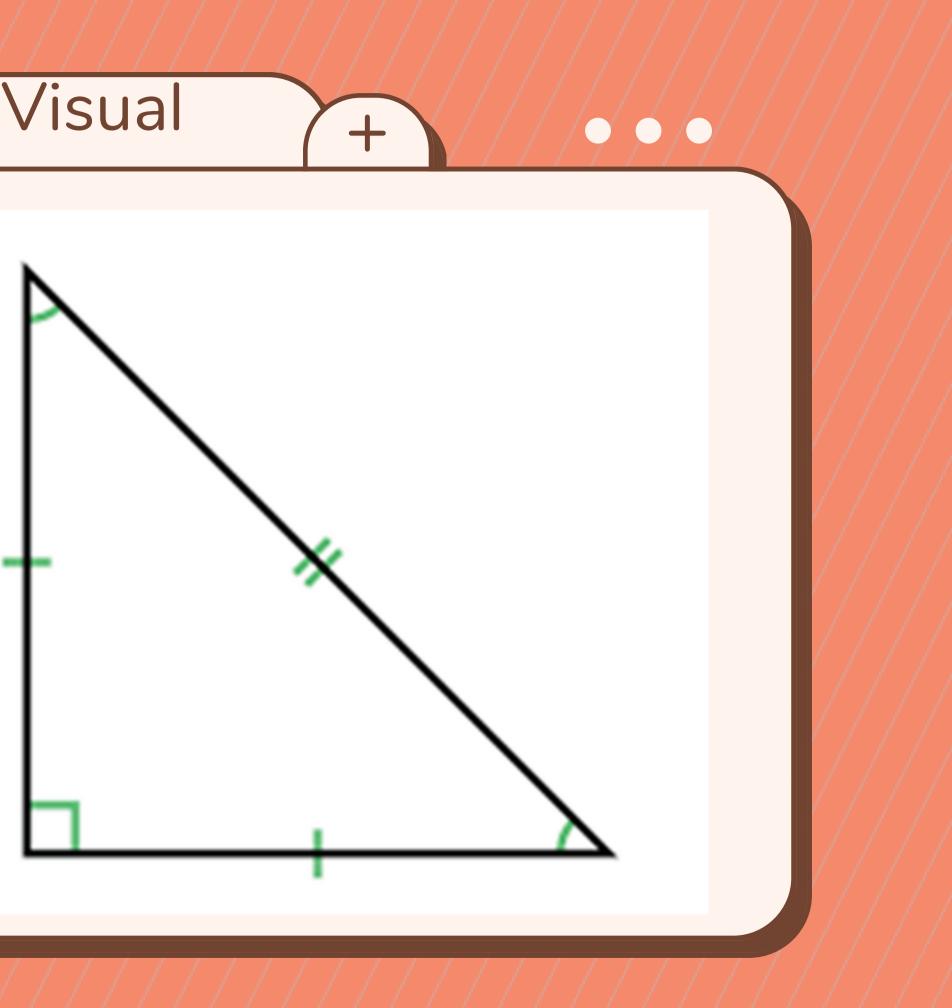


The cool thing about visuals is that they speak for themselves—no need to go into some complicated explanation of what a word means. You can point at the visual, and that usually does the trick.

Word walls are great. Sometimes they are a pain to build and replace for the next lesson, but once it is done, they can be used again. Lamination is the best.

# Visuals

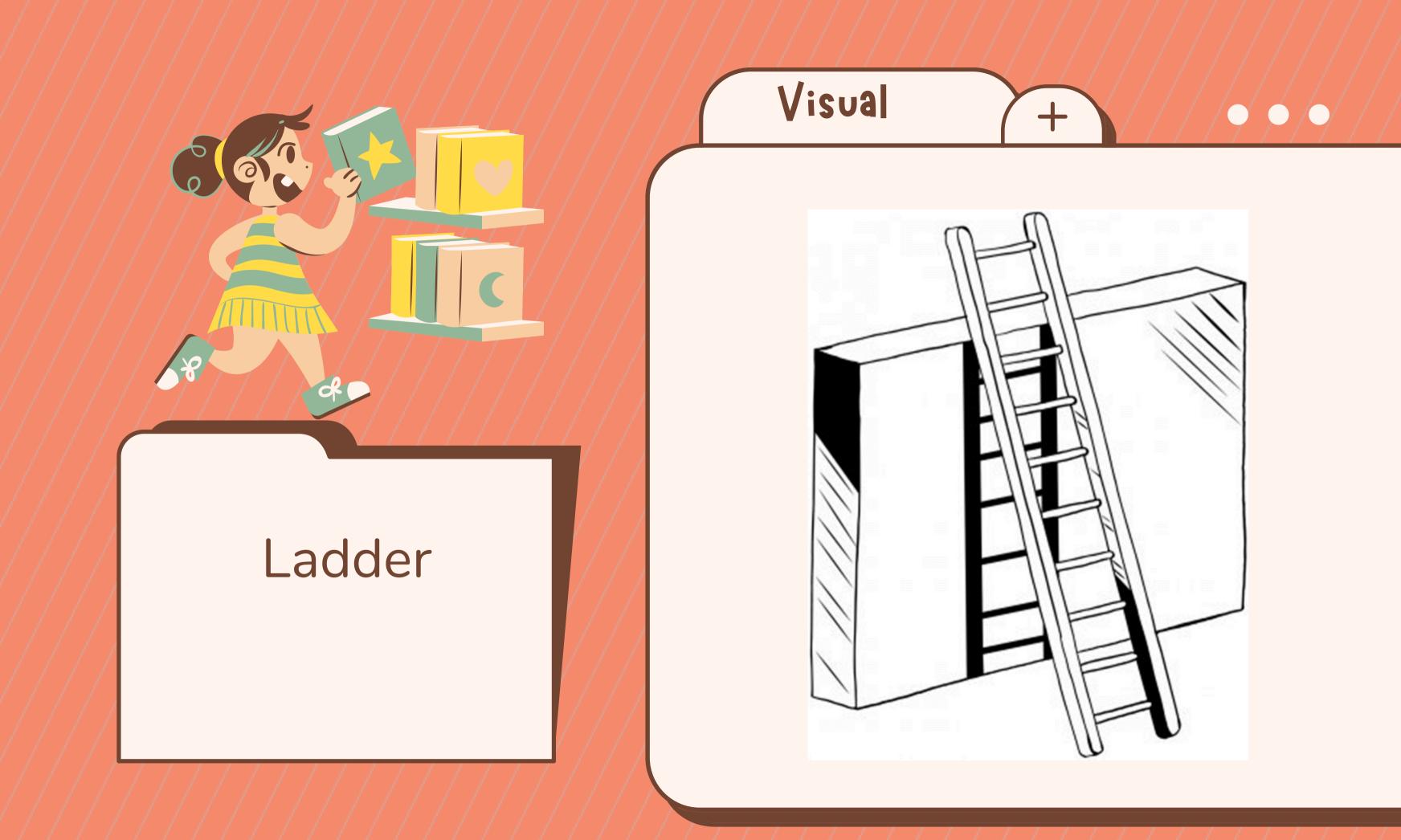


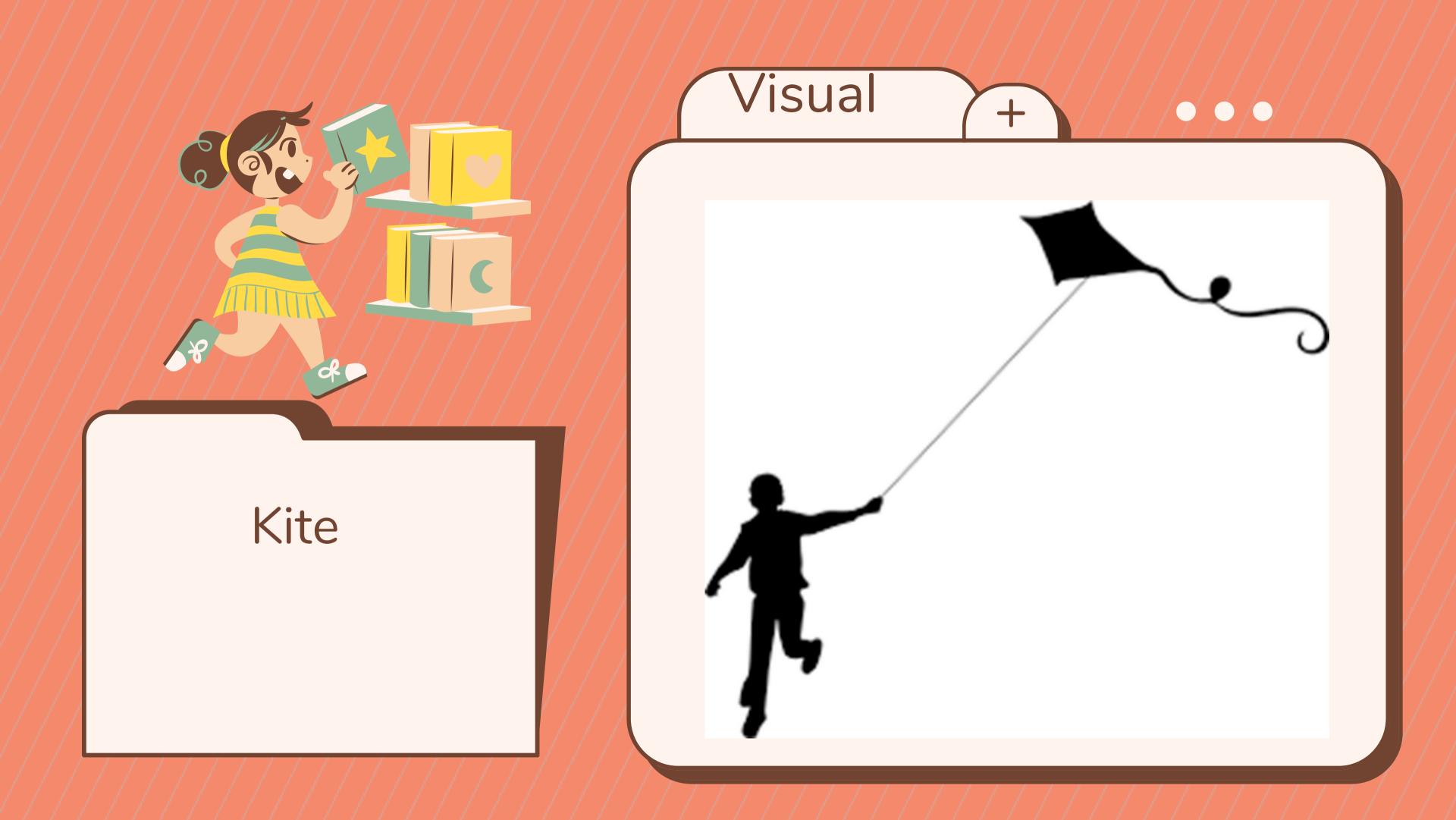




# Adjacent Next to







There are many different scaffold supports. I like sentence stems or starters because they the thought. Sometimes sentence frames look more like fill-in-the-blanks, and I want the students to use language and push themselves. Graphic organizers or skeleton notes are also excellent supports.

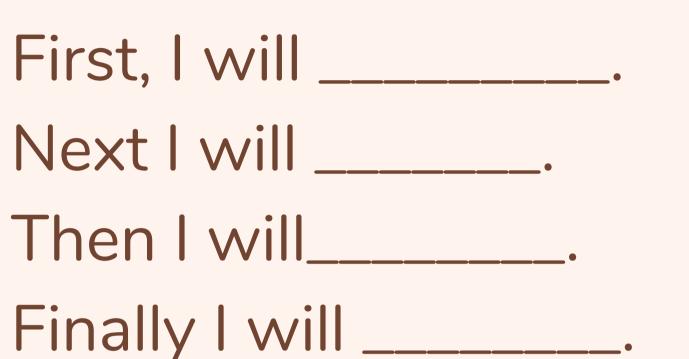
# Scaffold Supports

- get the student started then they need to finish

## Sentence Frames

Stem & Starters + 

Next I will



# The \_\_\_\_\_ of \_\_\_\_\_ is \_\_\_\_\_ The \_\_\_\_ can be found by starting at \_\_\_\_\_ and \_\_\_\_\_.

What students can say when they don't understand. Have this posted or on the table groups so students can access them.

Stem

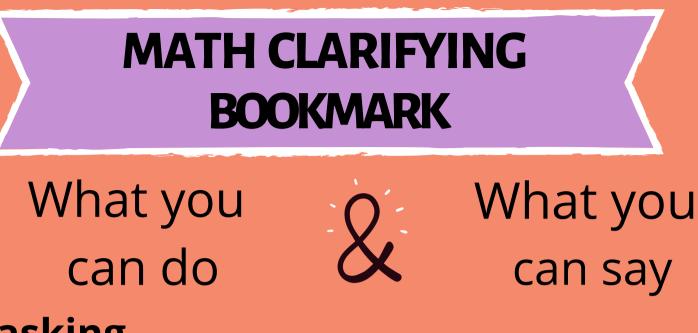
question?"

"I don't understand ...."

# "I understand how to do this, but I'm confused about ..."

#### "Will you please repeat the





#### Identify what the problem is asking.

The unknown in the problem is..... The units of the unknown are... Reasonable values for the unknown would be.....

This problem assumes that ...

Draw a picture or model to represent the problem in a different way I can show the problem by...

A model that represents this probem is... I can represent this part of the problem with...

> Adapted from Amplifying the Curriculum -Aida Walqui and George C. Bunch Editors

#### Identify the given data and constraints. The variables or quantities in the problem are... The values given in the problem are...

### Discussion

Miles on the tongue. This is a saying a friend of mine uses when we talk about discussion possibilities and our students. For learning to really stick in the brain, it needs to pass through all 4 modalities: reading, writing, speaking and listening. And multiples times. Teenagers love to talk except when called on in the classroom. Time for a change. Time to get kids talking about math.

Talking is so important to learning.

### Discussion

Think Pair Share is an old standby. But, let"s add a twist to it. Give students a problem. Have them think about it, try to solve it, then share it with their partner. Think, Write (or do), Pair Share

Problem-solving groups or natural table groups. Give students time to solve a problem on their own, then have them work it out and present it as a group.

Getting the students to talk about math.



Getting the students to talk about math.

# Discussion

advanced math language. the script on the table."

scripts and starters can help.

- Providing students with scripts, starters or frames that are easily accessable is a great way to get them to use the more
- "Joe, I like what you are saying but could you expand on that a bit? Take a look at
- Giving students permission to use tools is vital. Some don't want to look less than smart but having all students use the

# Class Recap

#### POINT 1

Q

We don't need students to speak like college mathematicians, but we are doing them a disservice by simplifying the language.

#### POINT 2

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Sentence stems, starters, and frames will help provide the language structure students need to speak mathematically.



#### POINT 3

More miles on the tongue. Speaking using the mathematical target language will help with overall comprehension.



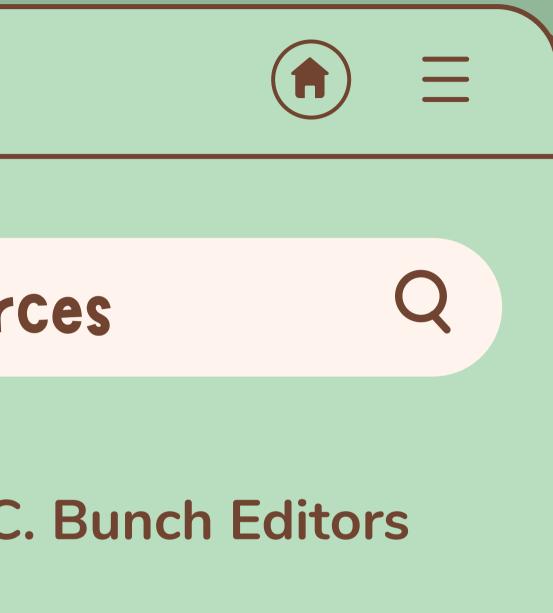
**Homework** I would like you to reflect on your practice. Do you useCany strategies and best practices mentioned in theCpresentation? If you do, which methods do you use, and how are they working for you? If youC don't, are there any you are interested in trying,C and how will you implement them in theC classroom?

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# Additional Resources

### **Amplifying the Curriculum** -Aida Walqui and George C. Bunch Editors

iris.peabody.vanderbilt.edu/module/math/





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# Thank You

FEEL FREE TO CONTACT ME AT:

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# IF YOU HAVE ANY QUESTIONS PLEASE



