



Education  
Coffee Break

# What is Guided Math?

ANGELA CHOATE

# Principles of Guided Math

- ▶ • All children **can** learn mathematics
- ▶ • A numeracy-rich environment promotes mathematical learning by students
- ▶ • Learning at its best is a social process
- ▶ • An organized classroom environment supports the learning process
- ▶ • Modeling and think-alouds combined with ample opportunities for guided and independent problem solving and purposeful conversations, create a learning environment in which students' mathematical understanding grows.
- ▶ • Ultimately, children are responsible for their learning

# Components of Guided Math

- ▶ Math warm-up – problem of the day, number of the day math stretch, math current events (10-15 minutes)
- ▶ Pretesting – using data to drive instruction
- ▶ Whole group instruction
  - ▶ Non-workshop days could be entire block
  - ▶ Workshop days – 10-15 minute mini-lesson
- ▶ Small group instruction/Conferencing
- ▶ Workshop
  - ▶ Independent practice (anchor papers)
  - ▶ Center activities or “choices”
- ▶ Assessment for learning



# What is Guided Math?

By Dr. Nicki

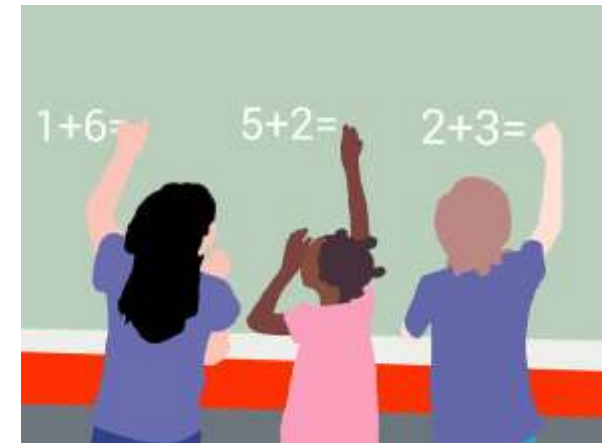


# Sample Schedule

- ▶ **Warm-up or morning stretch**
  - ▶ (on desk or board when students arrive)
- ▶ **Guided Practice – Mini-lesson**
- ▶ Whole group setting
- ▶ Teach a mini-lesson on a particular concept
- ▶ **Guided Math Groups**
  - ▶ Could be 3-15 min. groups or 2-20 min. groups or 1 group
  - ▶ Guided Math Instruction – with small groups on known or unknown content
  - ▶ Other students participate in independent practice (this can look different depending on the needs of the students)
- ▶ **•Wrap-up Session**
  - ▶ Whole group setting
  - ▶ Review problem of the day, share, collect work, etc.

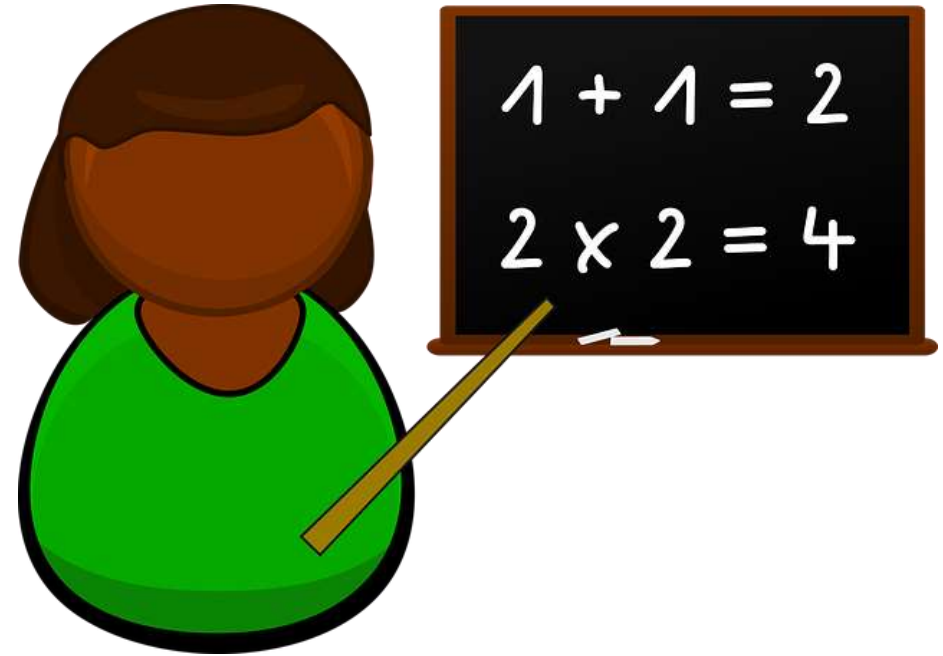
# Warm Up Ideas

- ▶ Number of the Day Math Stretch
  - ▶ How many ways can you show a number? 25 (2 tens and 5 ones, 20 + 5)
- ▶ What's Next? Math Stretch
  - ▶ 1, 2, 4, 7, 11, 16, \_\_\_\_, \_\_\_\_, \_\_\_\_
- ▶ How did my family use math last night? Or Makes Me Think Of...
  - ▶ Journal – Write: Fractions make me think of...
- ▶ Problem of the Day



# Mini Lesson-15-20 minutes

- ▶ Direct, explicit instruction
- ▶ Practice with the teacher
- ▶ Modeling a skill or concept
- ▶ Think Alouds
- ▶ Reviewing previously mastered skills
- ▶ Vocabulary development
- ▶ Setting the stage for Math Workshop
- ▶ Dividing the instruction into simpler phases
- ▶ Breaking down the skill into smaller steps
- ▶ Providing a diagram or pictorial representation
- ▶ Use of math-related children's literature



Short, sweet, concise, and to the point- limited student interaction during this time.

# Tips for an Effective Mini Lesson

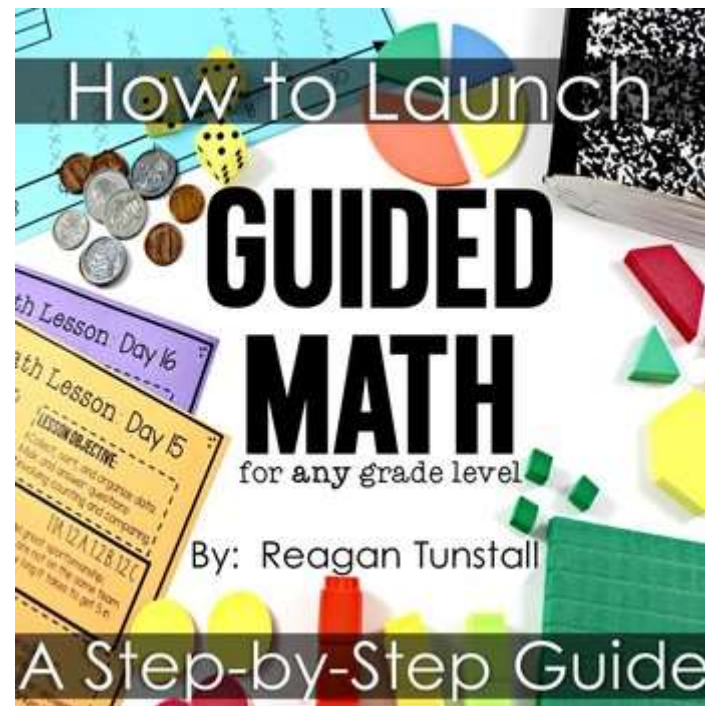
- ▶ Limit student talk – guided and controlled
- ▶ State the teaching point simply and reiterate it – avoid over-explaining but repeat often
- ▶ Demonstrate the math teaching point – show, model, think aloud
- ▶ Use a familiar context for problem solving
- ▶ Match the active engagement to the teaching point

\*\*\*\* Mini Lesson can be taught in small groups!



## How to Get Started??

Here is a great resource for planning your classroom for guided math and a lesson plan for the first 20 days of guided math!



Look for upcoming blog posts and slides on small group instruction and centers.



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