Enhancing the Math Experience for Exceptional Learners: Essentials for Instruction

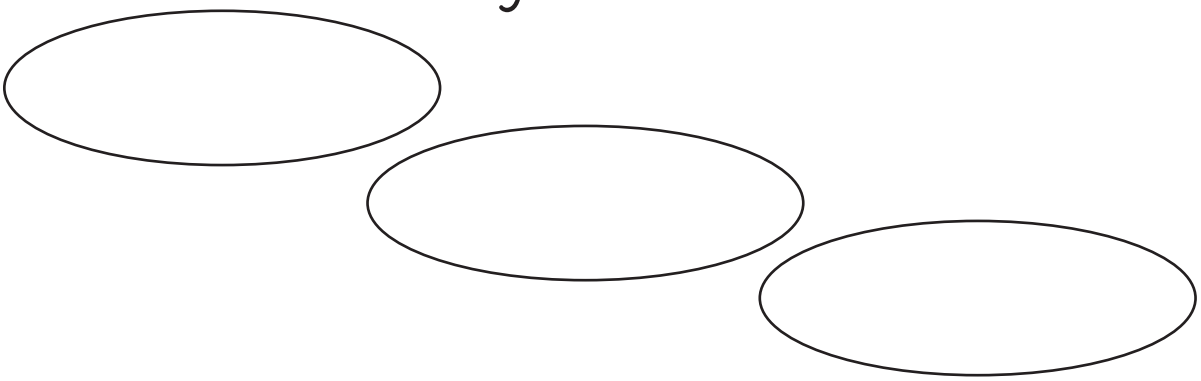
Sarah R. Powell, Ph.D.
srpowell@utexas.edu
@sarahpowellphd
www.sarahpowellphd.com

Tasia Brafford, Ph.D.
brafford@txstate.edu
@TasiaBrafford

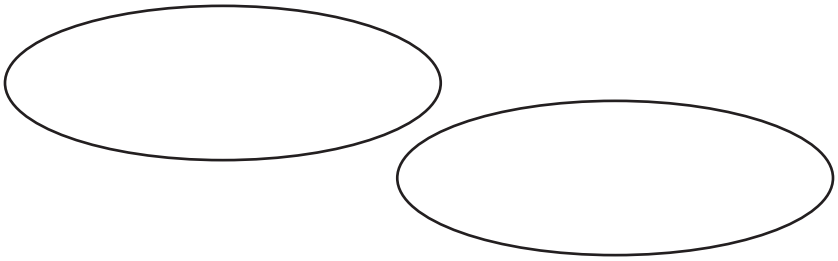
Jessica Mao
jmao@utexas.edu
@jessmao7

Instructional Platform

Instructional Delivery



Instructional Strategies



Model and Practice

Research and Information

MODELING

PRACTICE

SUPPORTS

Vocabulary

Research and Information

Use Formal Mathematics Language

Instead of that...	Say this...

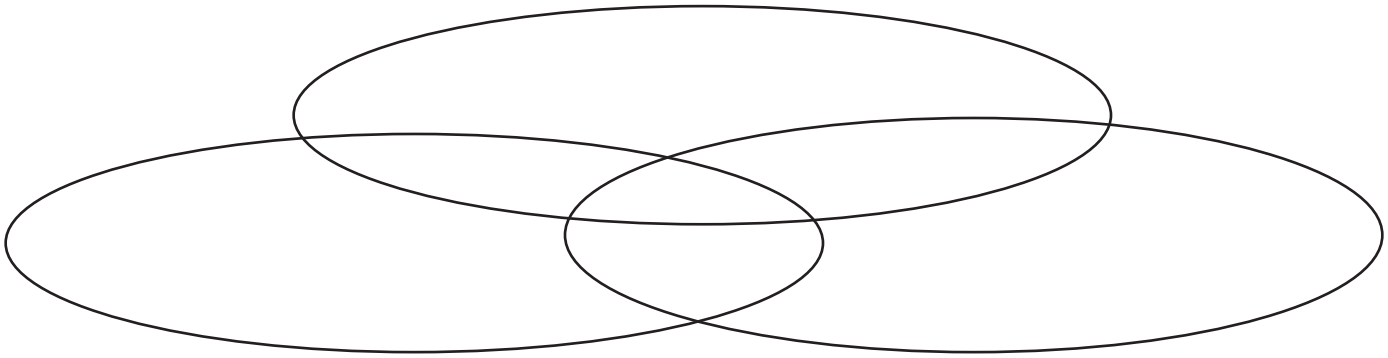
Vocabulary

Use Terms With Precision

Strategies for Teaching Mathematics Language

Representations

Research and Information



Fluency

Research and Information

Types of Fluency

Type	Memorization?	
	Yes	No

Word Problems

Research and Information

Word Problems

Attack Strategies

SOLVE

Study the problem.
Organize the facts.
Line up the plan.
Verify the plan with computation.
Examine the answer.

R-CUBES

Read the problem.
Circle key numbers.
Underline the question.
Box action words.
Evaluate steps.
Solve and check.

UPS✓

UNDERSTAND
Read and explain.

PLAN
How will you solve the problem?

SOLVE
Set up and do the math!

✓CHECK
Does your answer make sense?