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Objectives

- Know how autism affects writing and reading comprehension
- Know and be able to use proven strategies for expressive writing and comprehension

Characteristics of autism are thought to stem from an inability of areas of the brain to connect with other areas

The effects of autism on the brain generally produce strengths and challenges.

Autism As a Disorder of Information Processing

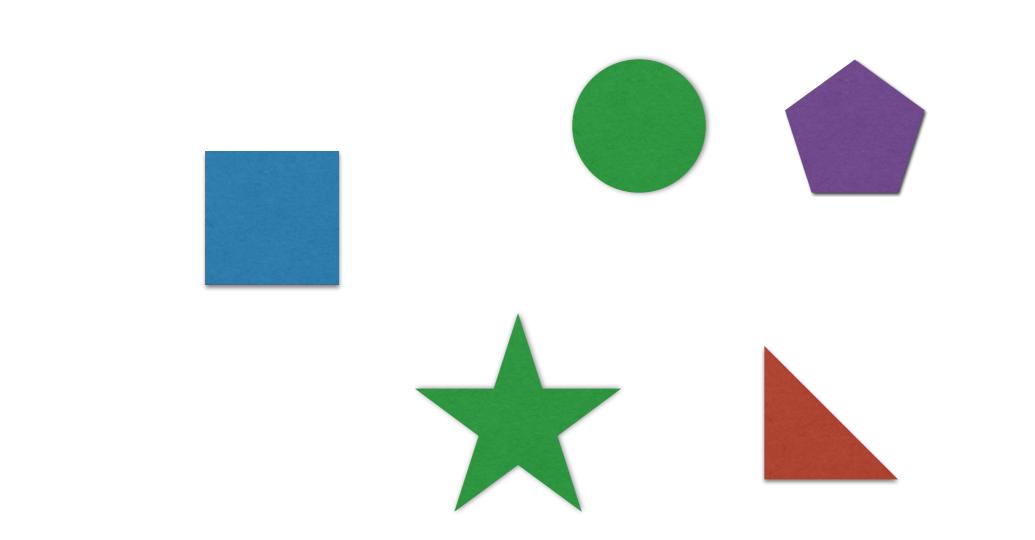
Intact or Enhanced

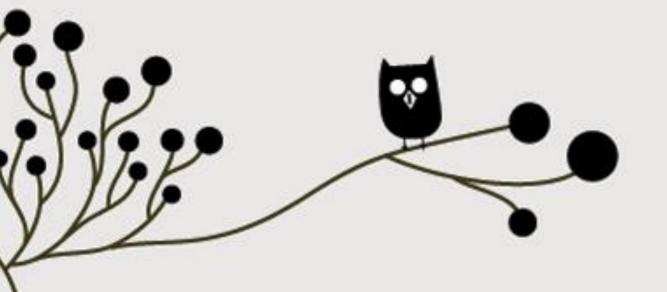
Cognitive Challenges

Sustained Attention
Simple Memory
Formal Language
Rule Learning
Visual

Complex Motor
Complex Language
Organization
Sensory Processing
Auditory Processing
Flexibility
Problem Solving

Mineshew and Williams, 2007





Everyone is a genius.

But if you judge a fish on its ability to climb a tree,

it will live its whole life believing it is stupid.

~ Albert Einstein



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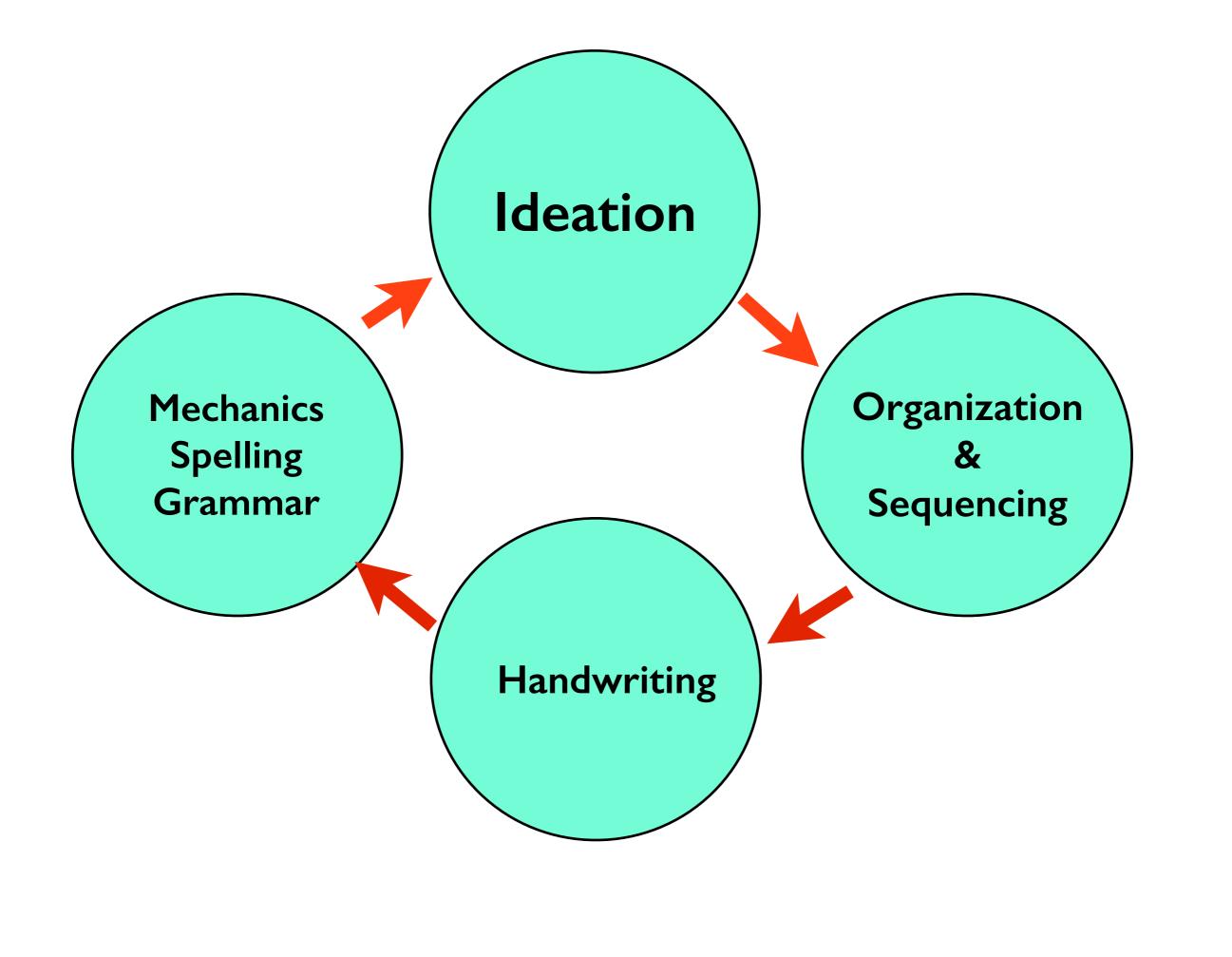
Mineshew and Williams, 2007

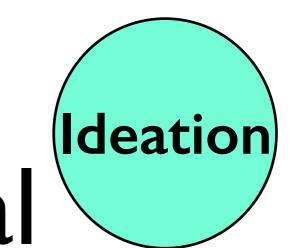
Aligned With Common Core Standards and Evidence-Based Practice

"I HATE TO WRITE!"

Tips for Helping Students With
Autism Spectrum and Related Disorders
Increase Achievement,
Meet Academic Standards, and
Become Happy, Successful Writers

Cheryl Boucher, MSEd, OTR, and Kathy Oehler, MS, CCC-SLP



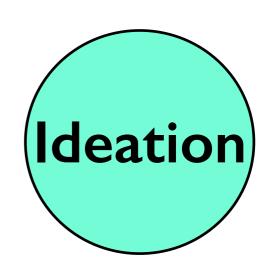


Frustration & Refusal

- Mindset: Writing as an aversive situation
 - Change the writing environment or routine.
 Relaxed atmosphere
 - First Then with reinforcer
 - Visual timer or kitchen timer
 - Possibly use area of interest

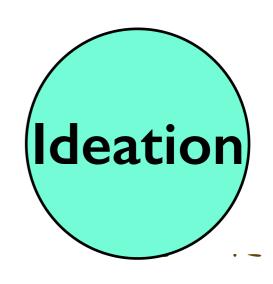
Kathy Oehler

Ideation



- Start with a relaxed atmosphere
- May start with area of interest but be careful! Branch out from the area of interest
- Ask questions and brainstorm to get the thought process going

Getting Stuck

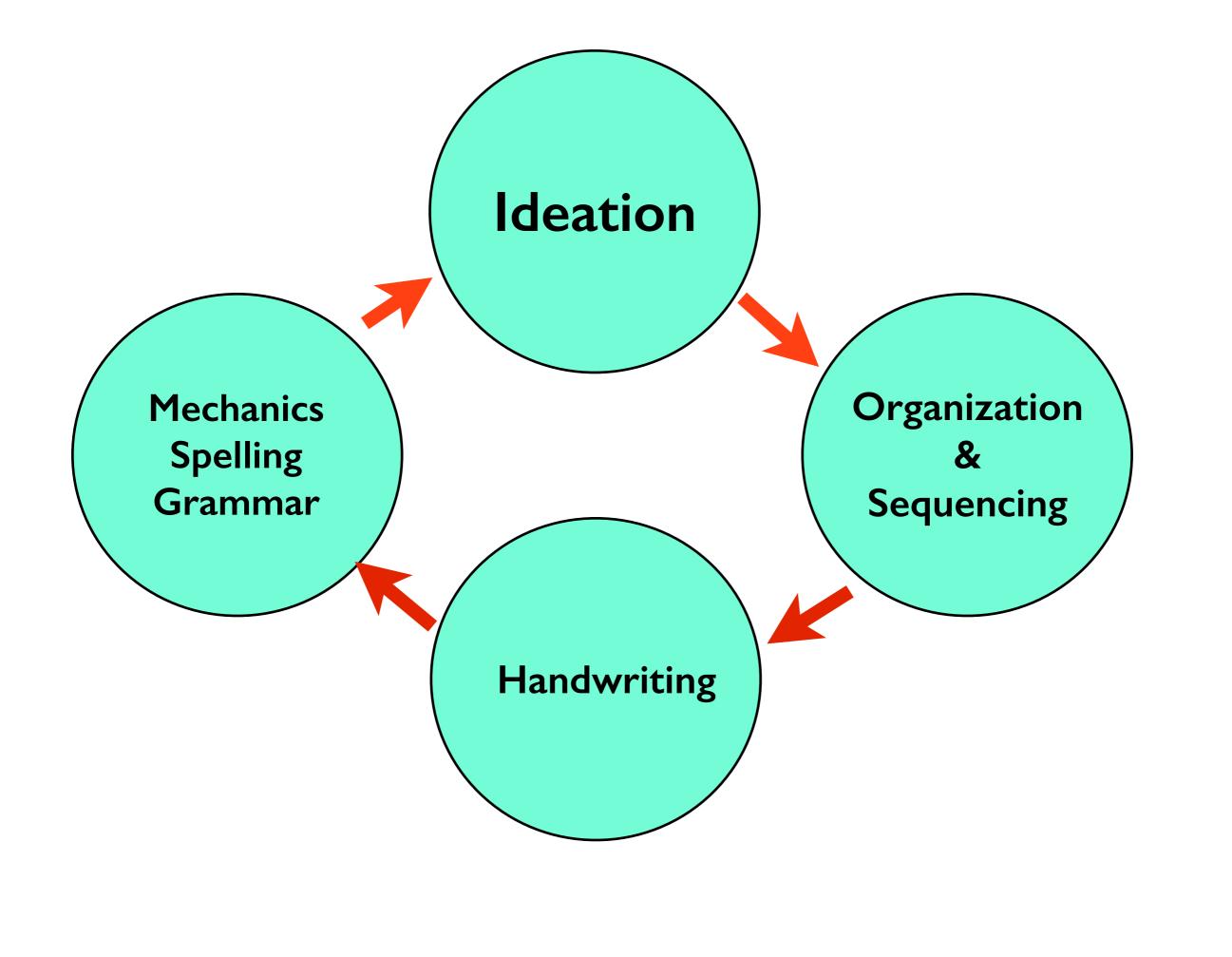


Perfectionism

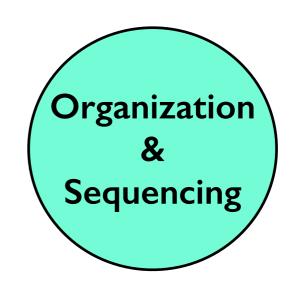


Concrete thinking

Perseveration - Use a story frame







Younger student - Get started with hand-over-hand support

Older student - Go to writing table, Do sensory warm ups. Write the first word or sentence for him.

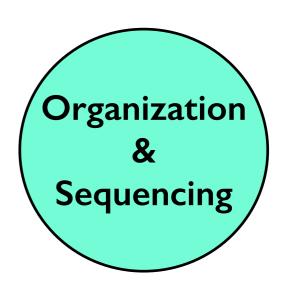
Brainstorm words or phrases first

Give very concrete instructions, one at a time.

Use graphic organizers

Kathy Oehler

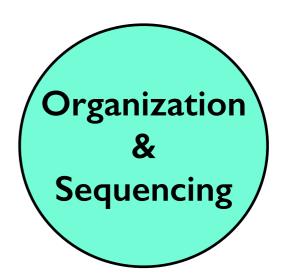
Knowing What to Write



"Sequential thought is often a big challenge for students with ASD. Just as they have difficulty with organizing their supplies, they also have trouble organizing their thoughts into logical sequence and order"

Kathy Oehler

Martin Luther King



8 brothers Birmingham shot civil rights dream speech 2 5 3 4

Plot Chart for Short Story		
Rising action and conflicts	Climax	Organization & Sequencing
Kising action and connects		Conflicts that are resolved during falling action
Setting Time Place		
What happens in the exposition or beginning of your story?		What is the resolution? How does it end?

Rising actions and conflicts

Wolf can't destroy brick house

Wolf destroys stick house Wolf destroy straw house Brick house built Stick house built Straw house built

Setting

Time: Not specific Place: Country

What happens in the exposition or beginning of the story?

Plgs move out of their mother's house.

Climax:

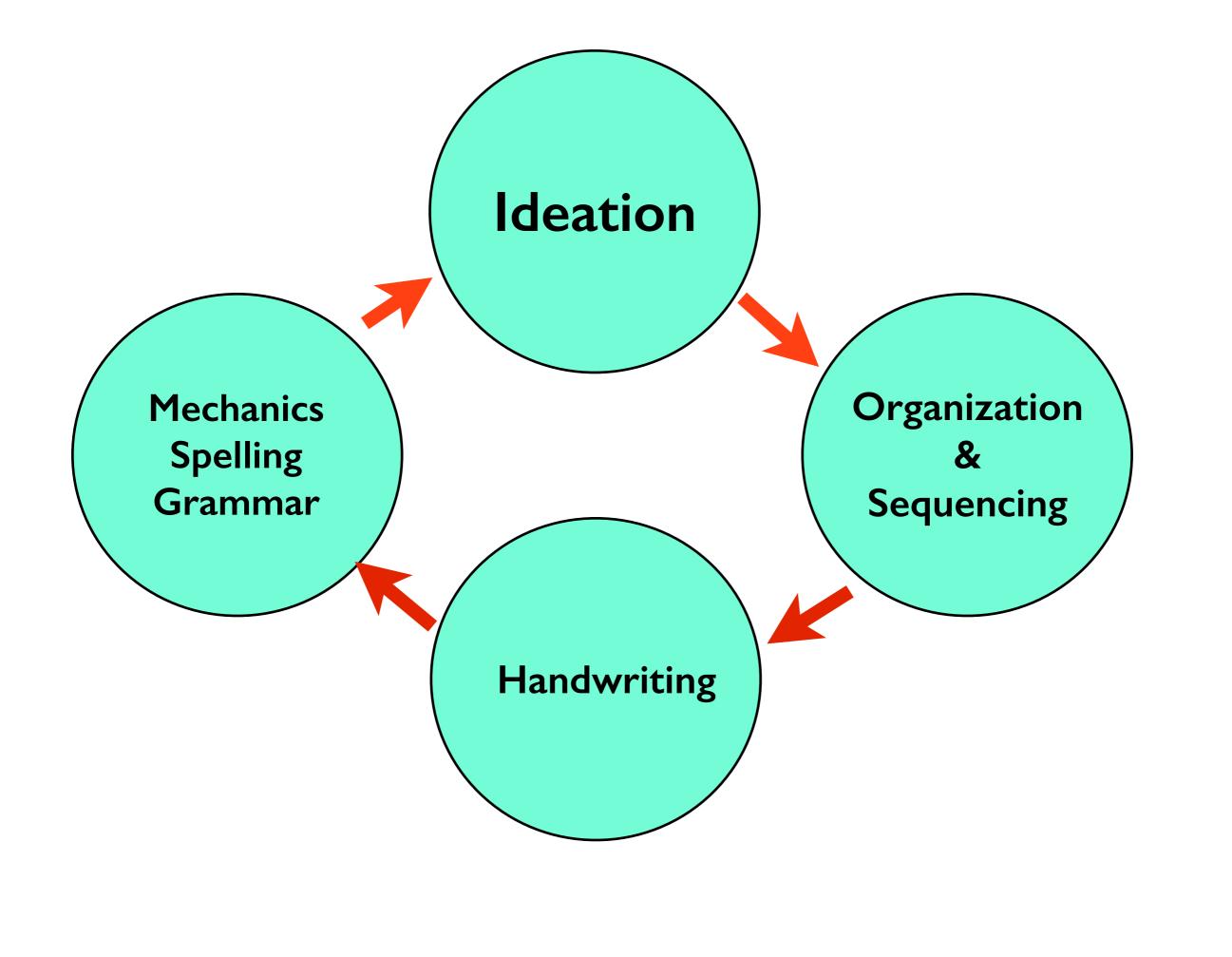
Wulf gets toasted down the chimney.

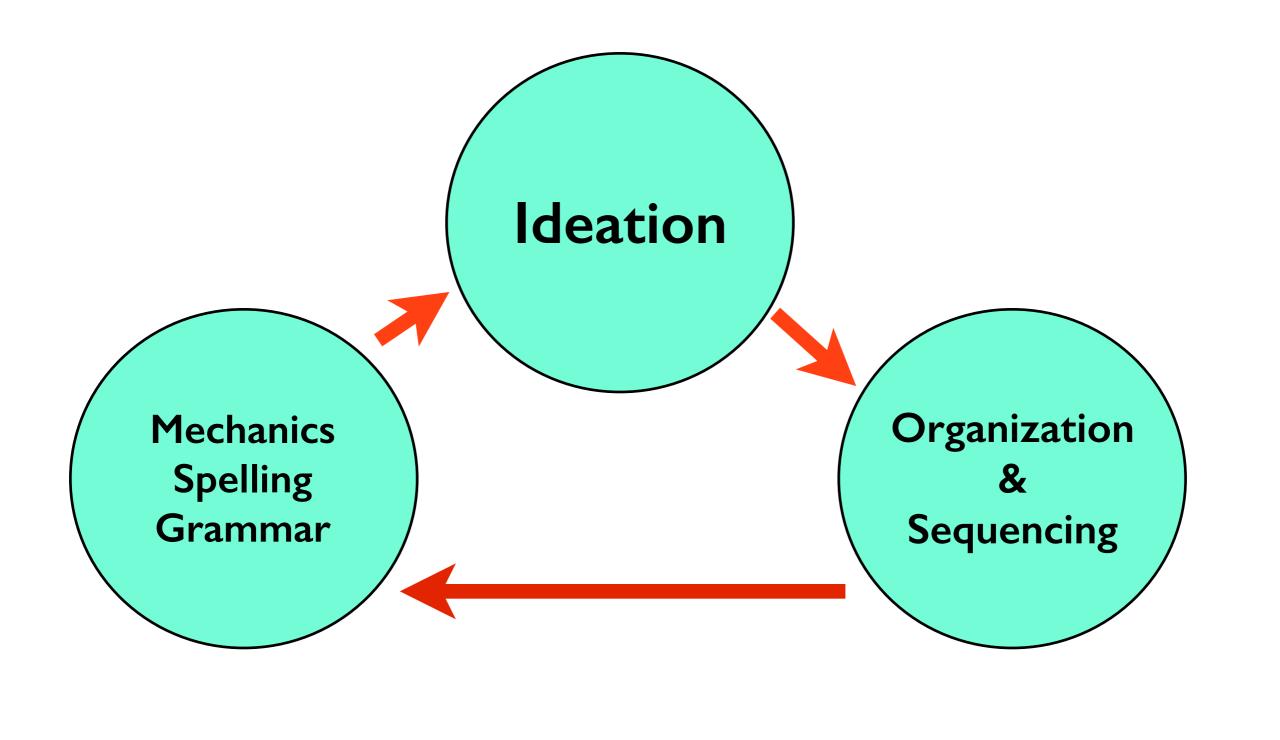
Conflicts that are resolved during the falling action.

Pigs clean up the chimney

What is the resolution? How does it end?

Pigs have the best supper ever and live happily ever after.





 So this thing about text to speech you know is that it's really showing up about everywhere I do text to speech on my phone h tha anyway yeah I saw her to show you how easyy sorry I do speech to text all the time on my phone sorry honey



selUr gnitirW

- #tfEl oT thGir moRf etirW •
- #deSu eB tSum eciOv evissaP •
- noitseUq A ,# A hTiw tnemetaTs A dNe syawlA #@ nA hTiw noitamalcXe nA dNa ,% A hTiw
 - sElur noitazilatiPac rebmemEr esaelP•

(dN2,ts1,.e.i.)

Karen Erickson

Writing Rules

- Do not follow the rules we just employed.
- Follow whatever rules you know and are comfortable with.
- Write for 2 minutes

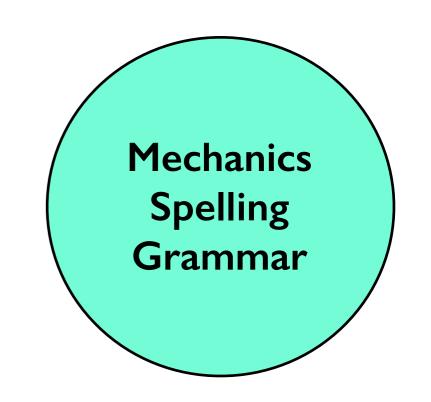
A Comparative Analysis

- Rules
 - –number of words
 - -confident/concerned
 - -enjoyed/disliked
 - -ease/difficulty

- Free Write
 - –number of words
 - -confident/concerned
 - -enjoyed/disliked
 - -ease/difficulty

Karen Erickson

Revising and editing



- Rigid Thinking -
 - Take a break before editing
 - Use an editing checklist
 - · Use a computer to help with editing

Editing Toolkit

GREEN

Spelling

ORANGE

Punctuation

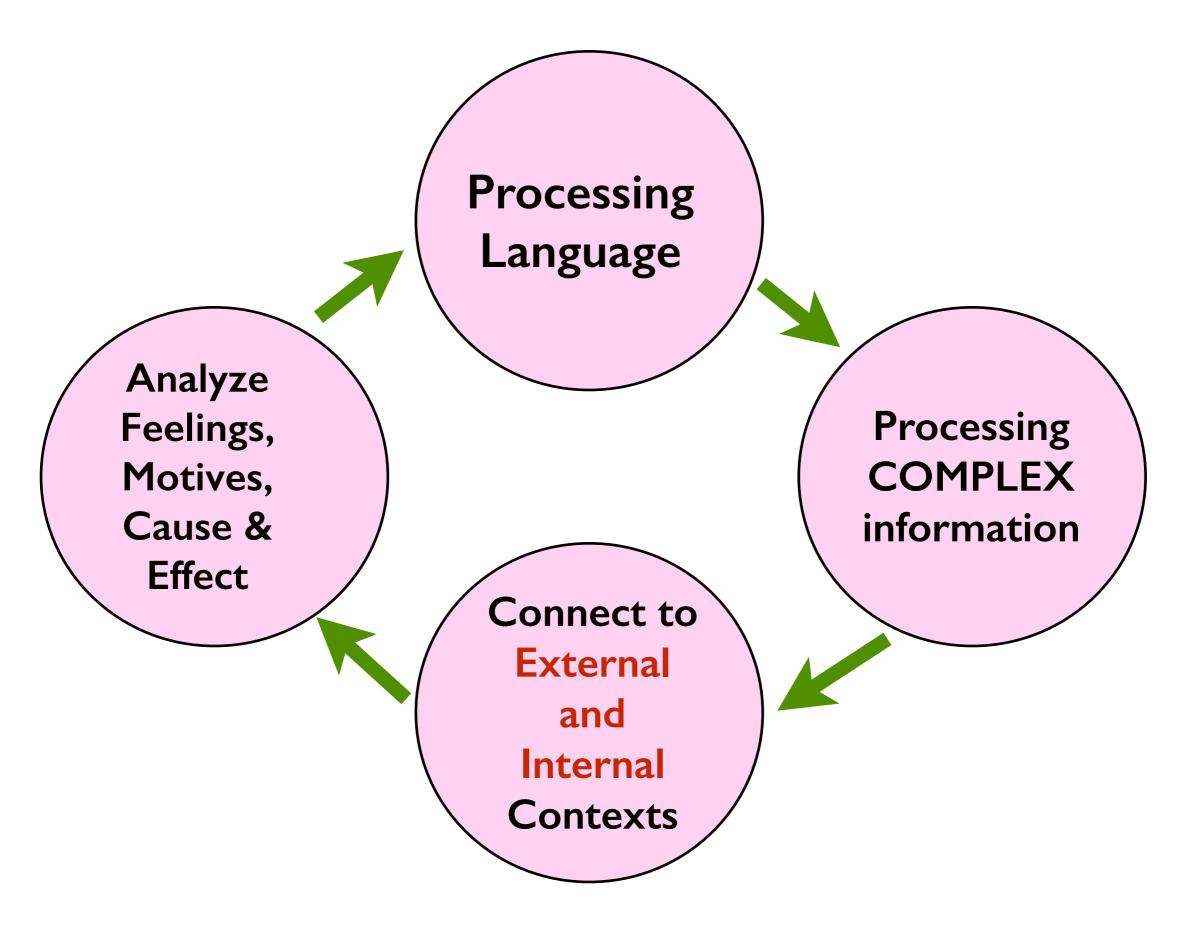
YELLOW

Capital Letters

BLUE

Indenting

Comprehension



Comprehension Components Related to Autism

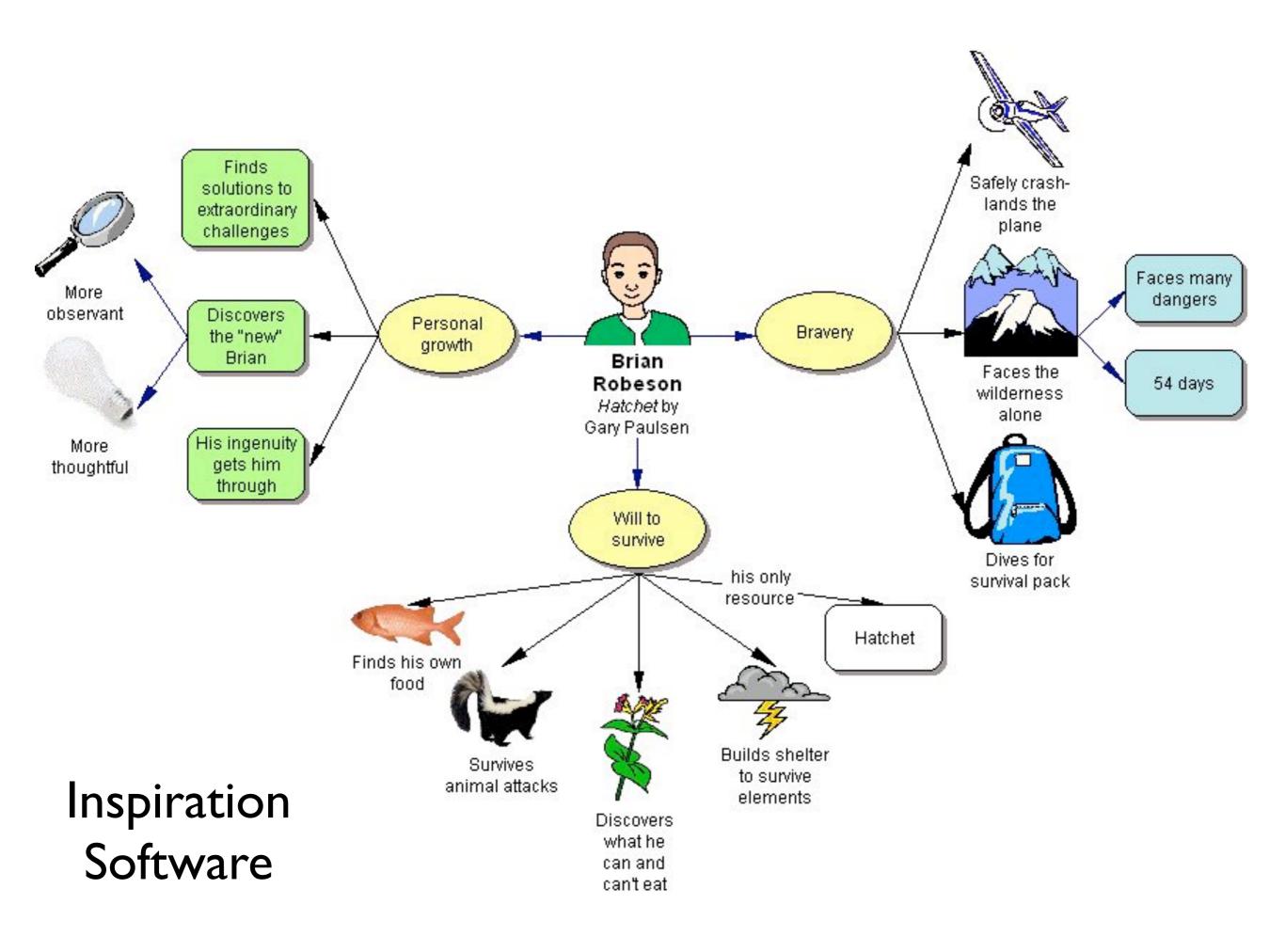
Control the environment

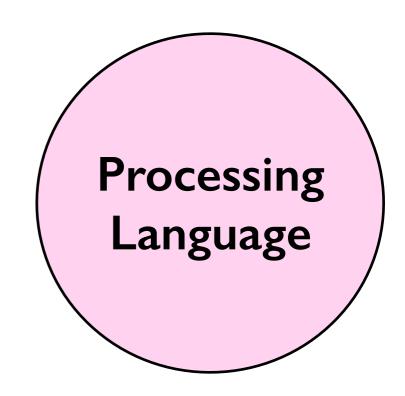
- Increased time
- More repetition
- Stressing the structure of narrative and informational text

Processing Language

Processing Language

- Visual support
 - Pictures
 - Graphic Organizers
 - Video (before reading)

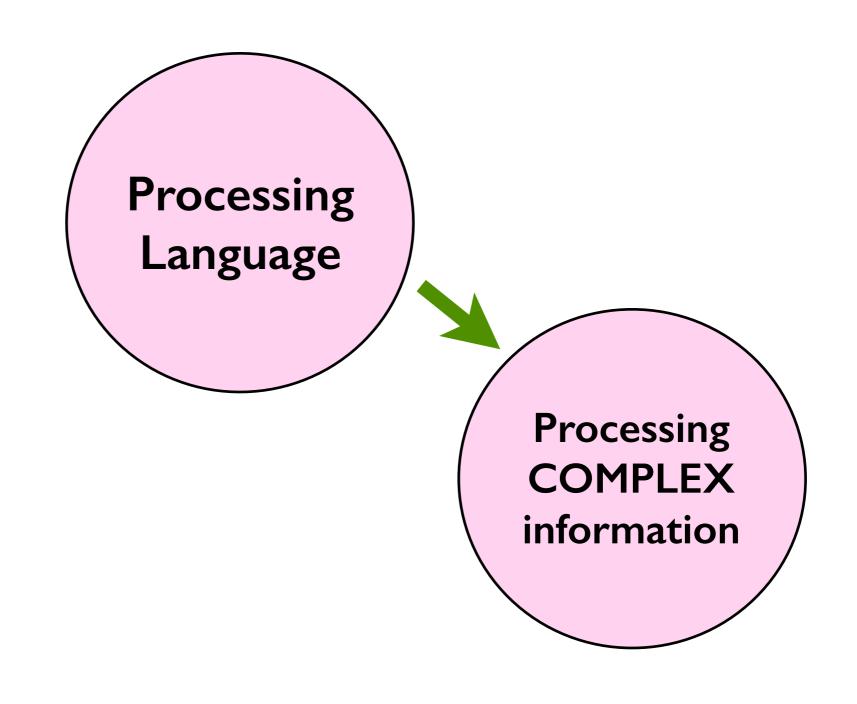




- Prime set the stage and have them look for important and relevant information
- Provide reminders (sticky notes)

Sticky Note Reminders

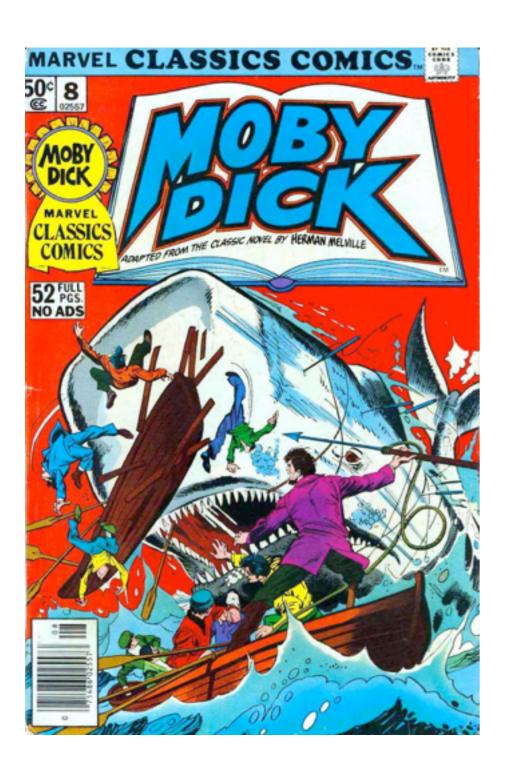
- Symbol Reminders to
 - Take notes on the setting
 - Make a prediction
 - Etc.



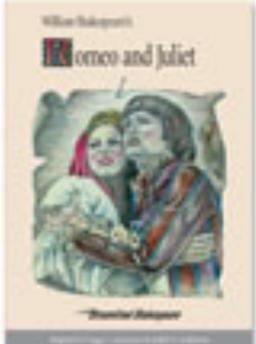
Comprehension Components Related to Autism

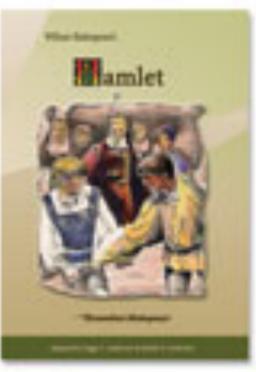
Processing COMPLEX information

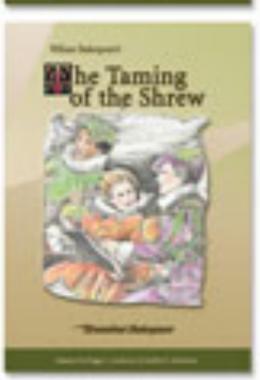
- Use stair-step or apprentice texts
- Identify the antecedents to pronouns
- Simplify the text
- Guide students to find the subject and verb

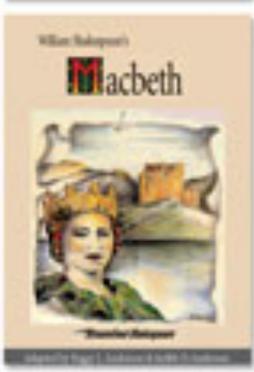


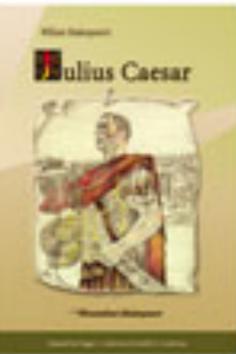












Use Stair-Step or Apprentice Texts

Texts may be hard because of grammar or syntax

Processing COMPLEX information

- Explain clearly using at least three different reasons or drawing three diagrams why McClellan lost the battle.
- Explain clearly why McClellan lost the battle. Give at least three reasons or draw three diagrams.

Timothy Shanahan

Processing COMPLEX information

- Guide students to interpret complex sentences (clause and phrase analysis)
 - In dense pros, help find the subject and verb:
 - "However, on August 24, 2006, the International Astronomical Union (IAU), a group of individual astronomers and astronomical societies from around the world, made an announcement."

Processing COMPLEX information

- Guide students to interpret complex sentences (clause and phrase analysis)
 - In dense pros, help find the subject and verb:
 - "However, on August 24, 2006, the International Astronomical Union (IAU), a group of individual astronomers and astronomical societies from around the world, made an announcement."

Who was the sentence about?

the International Astronomical Union (IAU)

Who are they?

a group of individual astronomers and astronomical societies from around the world

What did they do?

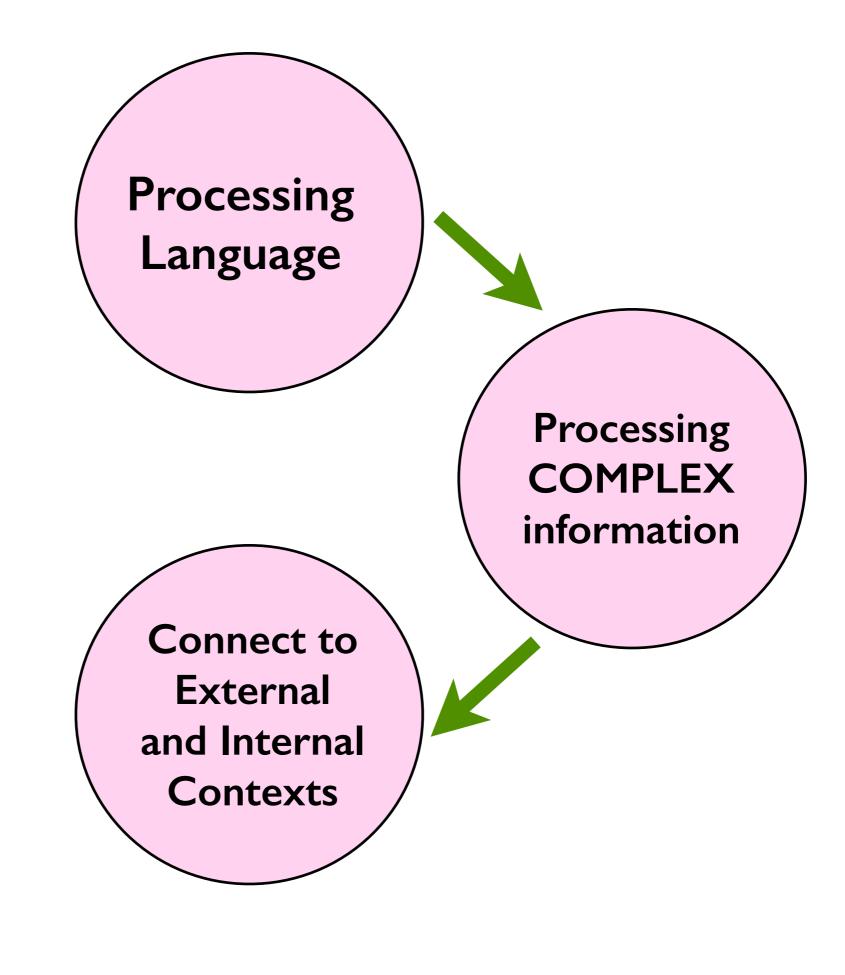
made

Made what?

an announcement

When?

on August 24, 2006



Internal Context
Ideas, knowledge,
experiences, feelings, etc.

External Context
Information in the text

The sea tastes like salt and ...

You can hunt with a knife and ...

The night is black and ...

Peter Vermeulen, 2013

The man steps into his car and starts the ...

She said visiting relatives can be a nuisance.

The woman liked to keep her house tidy.

She said visiting relatives can be a nuisance.

The woman hated traveling.

She said visiting relatives can be a nuisance.

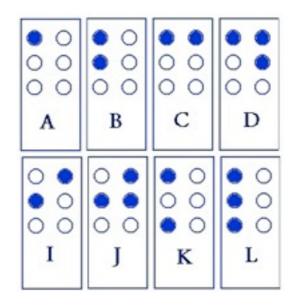
"Lily opened the door and saw that Jumper was no longer in his cage. Crying, she walked over to her mother, who told her, "He will not fly far away and will come back."

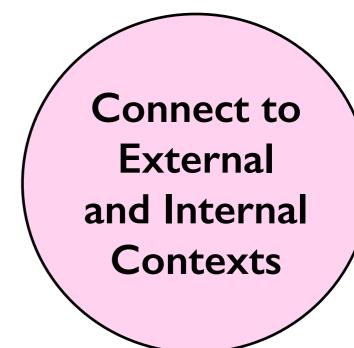
Anaphoric Cueing

Processing COMPLEX information

- Texts can be hard because the relationships and connections may be unclear to the readers
 - The killer whale tosses the penguin into the air and generally tormented it's prey before it eats it.
 - The killer whale tosses the penguin into the air and generally torments penguin before eating it.

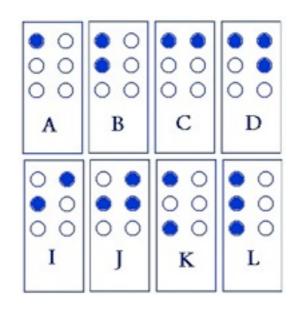
Context Braille





- Ask questions
- Pre-teach confusing vocabulary, idioms, and metaphors
- Use graphic organizers
- Use visual supports

Context Braille



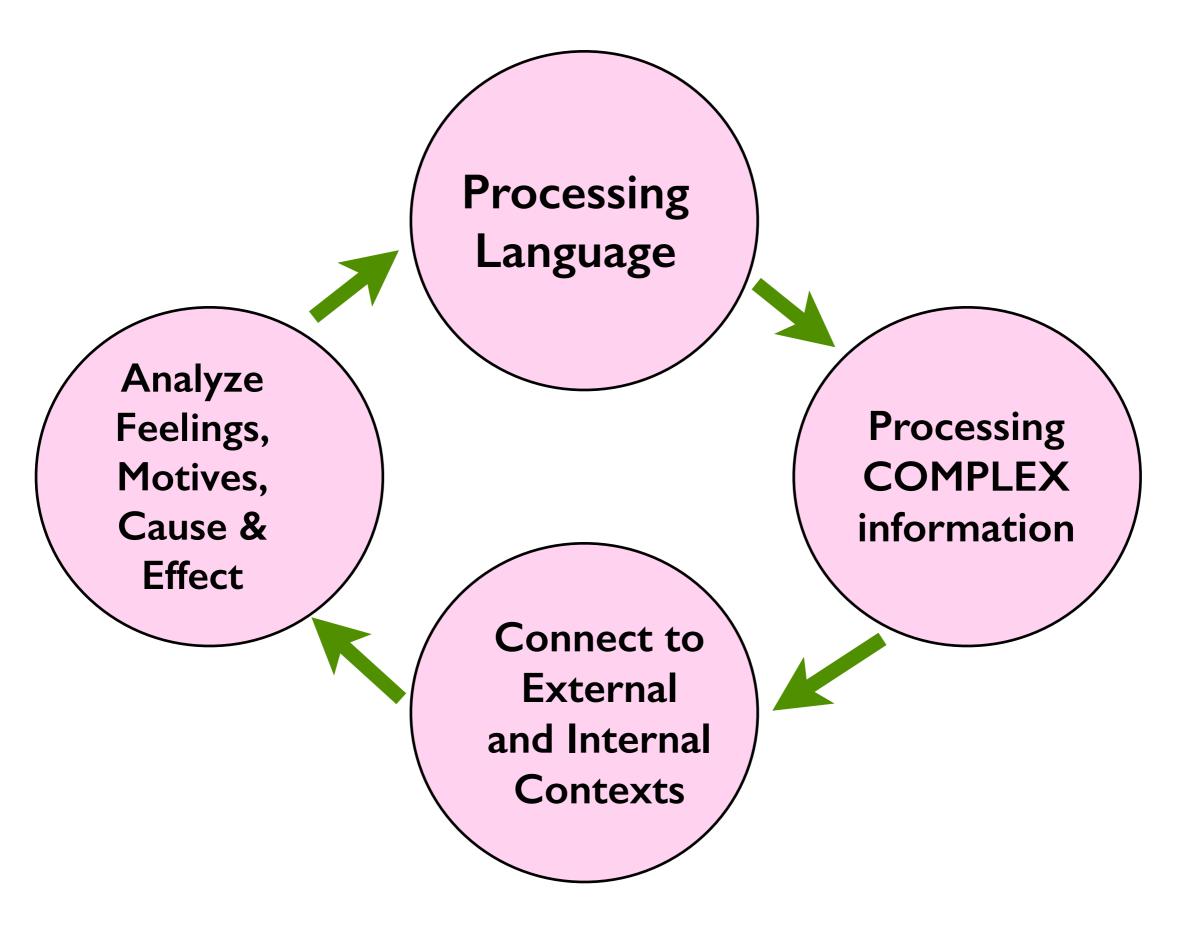
Connect to External and Internal Contexts

- Guide student in linking to relevant background knowledge (teach relevant and irrelevant)
- Teach to self-monitor comprehension
- Explicitly teach how to focus on words and sentences in a paragraph to find clues to the meaning

Push the Context
Button



Connect to External and Internal Contexts



Comprehension Components Related to Autism

Theory of Mind

John and Mary are playing in the living room. Mother comes back from the store. They expect they will get a treat. John thinks that he will get a a candy bar. Mary thinks that she will get a lollipop. Mother enters the room and both children get a chocolate bar. How does John feel? How does Mary feel?

Peter Vermeulen, 2013

Analyze
Feelings,
Motives,
Cause &
Effect

- Reciprocal teaching
- Visual support
- Ask questions

Reciprocal Teaching

- National Reading Panel Report Question generation is the single most
 effective reading comprehension
 strategy.
- Question, summarize, clarify and predict

"It seems that for success in science or art a dash of autism is essential."

~ Hans Asperger