# Communication All Day Long: AAC in the Classroom

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# ASHA Disclaimer: Caroline Ramsey Musselwhite

- Relevant Financial Relationships: Caroline Musselwhite is the owner of AAC Intervention and receives compensation as such. During her presentation she will be referencing her company and actual case studies. She has authored many books and software items and receives royalties and or consulting fees for these publications through her company, Don Johnston Inc. and the Attainment Company. She has consulted with other companies including AbleNet, Assistiveware, and Panther Technologies. She has consulted with nonprofit groups such as FAST and Angelman Syndrome Association.
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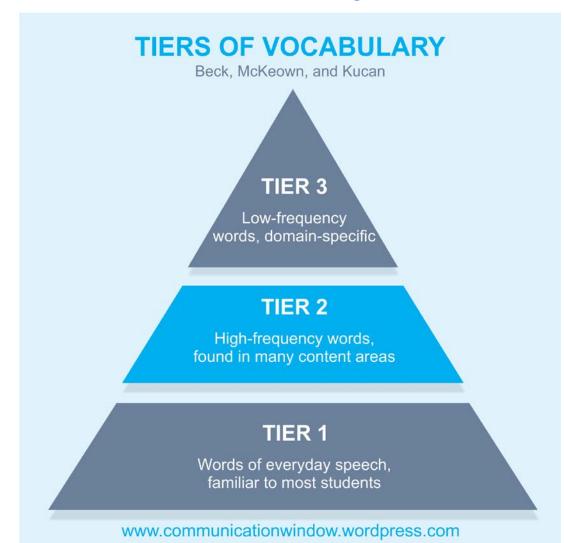
### By Chip & Dan Heath

www.aacintervention.com

# AAC in the Classroom: What Do We Need?

- AAC System Always Available: Yes, ALL day!!
- Smart Partners people who know the language on the system
- **Peer Supports –** peers are great modelers . . . And great problem-solvers!
- Creativity Need to find ways to encourage use of AAC across all activities

## A Framework for Thinking about Vocabulary from the Literacy World



# **Tier 1 Words**

- Basic Words
- Students need to know them
- Sight words
- Don't require instruction
- AAC terms: core vocabulary +
- Examples: I, it, want, will, have, happy, clock, baby, movies

# Tier 2 Words

- Somewhat high frequency in academics
- Are cross curricular
- Important for understanding texts
- May have multiple meanings
- Allows student to give rich descriptions about concepts
- Allows student to be specific
- These words increase their level of communication
- AAC terms: general academic core/content
- Examples: merchant, tend, fortunate, maintain, hasty, absurd, required, performed

## Tier 3 Words

- Very low frequency of use
- Specific to a domain/field of study
- Found far more often in informational texts
- AAC terms: fringe vocabulary
- Examples: igneous, metamorphic, osmosis, Boer War, mitochondrion, sine

Descriptive Teaching Method Gail Van Tatenhove

A process for teaching and reinforcing the use of core language - high frequency words in the classroom throughout the entire school day

www.gailvantatenhove.com

Descriptive Teaching Method: Gail Van Tatenhove

Instead of programming more and more words into the AAC device for vocabulary for each new area of the curriculum, the student communicates those new ideas with high frequency, re-usable words already in his/her vocabulary system.

# Shift Instructional Language From Referential to Descriptive

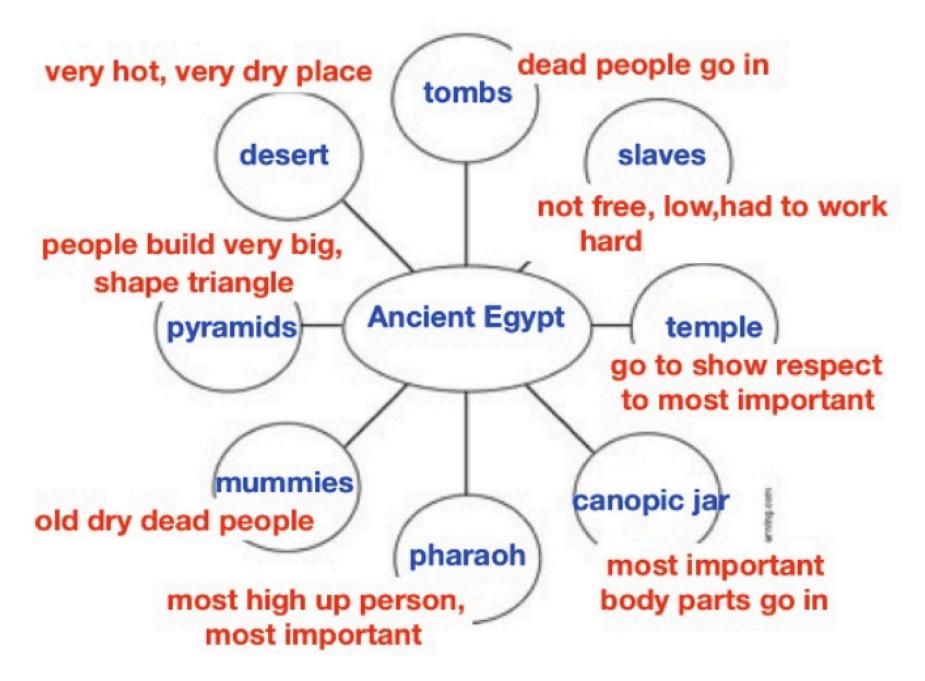
<b>Referential Language</b>	Descriptive Language	
Unit-specific vocabulary	Plain language	
Many new words	Use familiar words to desribe new concepts	
Elicit quick single word responses		
	Elicit multi-word responses	
Expect correct/incorrect		
responses	More than one correct response	
www.gailvantatenhove.com		

# **Key Strategies**

- Plan A: This is interactive; Expect a response that is:
  - -Active
  - -Generative
  - -Using speech and AAC device

## Plan B: Model, model, model

- -Using student's AAC system!
- Talk Aloud to show where you find the words
   Okay ... Describing words ... More ...



Slide from Erin Sheldon, MA

# Vocabulary Considerations for AAC Devices

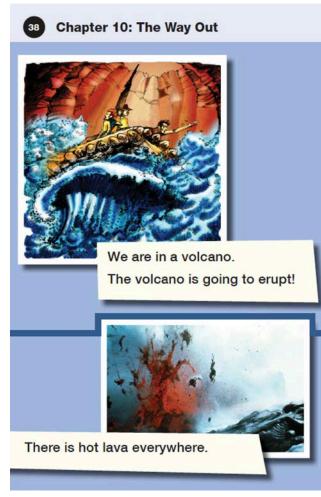
- Problem with academic vocabulary on AAC device: Here today—gone tomorrow!!!
  - Vocabulary may not be used after the unit is over
  - Amount of space taken up on device with academic vocabulary
  - Motor demands
  - Simply saying the vocabulary word on the AAC device doesn't ensure a deep understanding
- Solution: Consider having AAC words that students can say ALL of the time to TALK about the target vocabulary word

# **Ask These Questions:**

- 1) Is this word only for a single unit of study, or will it be used across many units
- 2) Will this word be used AFTER the unit is over??

• If the answer to either question is NO, consider using light tech supports, such as lists

# Instead of Always Pre-Teaching . . . Teach During Shared Reading!



Journey E2 – p. 38

Mr. K: "There is hot lava everywhere.' Wow! LOOK OUT!" (pauses) Jake: "What?" Mr. K: "Hot lava!' DO NOT touch! (points) Mr. K: "So hot! Red hot!" (pauses) *Ellie:* "Hot." Mr. K: "Right Ellie. Hot red lava! It Goes DOWN. It's IN the volcano."

Readtopia: Journey www.donjohnstoninc.com

### Vocabulary Mining – Tier 2 Words!

Words Words Words!!

WHAT AND WHY: I often caution against adding content words to AAC devices, instead suggesting using Gail van Tatenhove's strategy of Descriptive Language Teaching. This strategy uses 'Tier 1 Words' (basic or core words) to describe less frequent words such as 'igneous' or 'mummy.' However it may be very helpful to teach and/or add rich Tier 2 words (general academic vocabulary: words that are high frequency but may have multiple meanings, such as 'cluster', 'sympathy', 'absurd, and 'judge'.) For students engaged in academics, these Tier 2 words may help them define less frequent words and write more successfully.

#### HOW TO 'MINE FOR TIER 2 WORDS:

 Select words from books that students are reading.
 For example, we were reading a story from 20000 Leagues Under the Sea/ Readtopia. Two words that some students didn't know were 'harpoon' and 'famous.' We used core words to describe 'harpoon' but added 'famous' to devices for two students. The rationale was:

- 'Famous' can be used across many subjects (history, science, ELA)
- 'Famous' can be used to describe many words and people

As we read a book from Prehistoric Pals

(Oceanhouse Media, I noted some Tier 2 words. We played Vocabulary Password (Tip # 3, 2017), then asked the student if she wanted us to add any of the words. You can see the words she selected in the chart to the right. All of these words have been used repeatedly when describing characters and animals.

#### DOES IT WORK?

Yes, but only if partners MODEL the new words. Multiple people must model the words in context so that students will use them. Below is an example of how a student used the word 'creature' that had been mined from previous reading.

2-17-18	Lit Group – scavenger hunt for Mom going to Nepal	ANIMAL; FAVORITE; CHILDREN; YUCK; GROSS; CREATURE	We had talked about Yeti last week in therapy
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Van Tatenhove, G. (2009). Building Language Competence with Students Using AAC Devices: Six Challenges. Perspectives on Augmentative and Alternative Communication, 18(2), 38–47.

# Vocabulary Mining Tip

### 2018, Tip # 4 <u>www.aacintervention.com</u>

READING - Mine for new words √ANCIENT √CALM √REPTILE Clusse √SCALES	PREMISTORIC PALS Theory sources
<ul> <li>Story Retelling</li> </ul>	

our site a local site of some

a constitution of the local sector of the

# Mining from Literature: Tier 2 words

С	READING	
	<ul> <li>Mine for new words</li> </ul>	PREHISTORIC PALS
	√ANCIENT √CALM √REPTILE Chase	Tyrannasaurus
	√SCALES - Story Retelling	

С	READING	
	<ul> <li>Mine for new words</li> </ul>	PREHISTORIC PALS
	- DANGER	Stegasaurus
	- BUMP	
	<ul> <li>√TICKLE: LOVE / STOP</li> </ul>	
	<ul> <li>√PORCUPINE: ANIMAL /</li> </ul>	
	WOODS	
	<ul> <li>√FIERCE: ANIMAL / FIERCE</li> </ul>	Ev found L for lion
	<ul> <li>Story Retelling</li> </ul>	

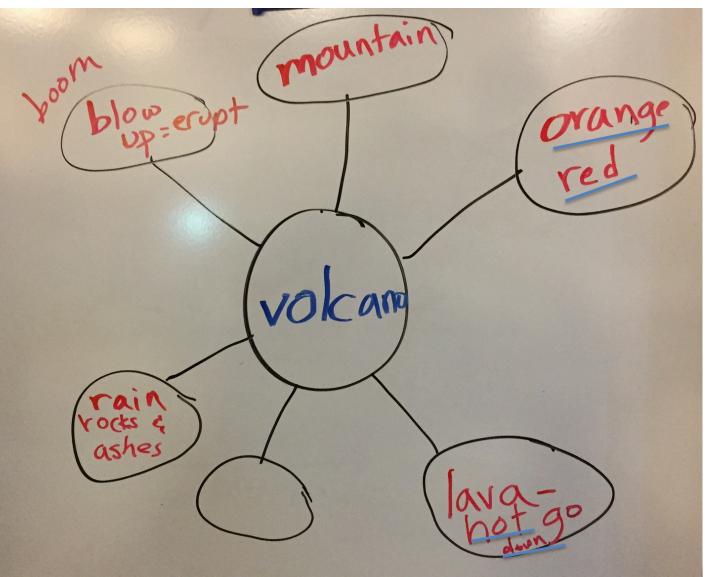
# **General Rules**

- A concept can't be pointed at: go slowly
- Ask open-ended questions: concepts have many right answers
- <u>Ask peers to help</u>: peers benefit from generating the language

# **Bubble Map**

bathrooms Schools Swimming pools Segregation Separate / different Water Fountains places on the bus

### **1-Minute Word Web**

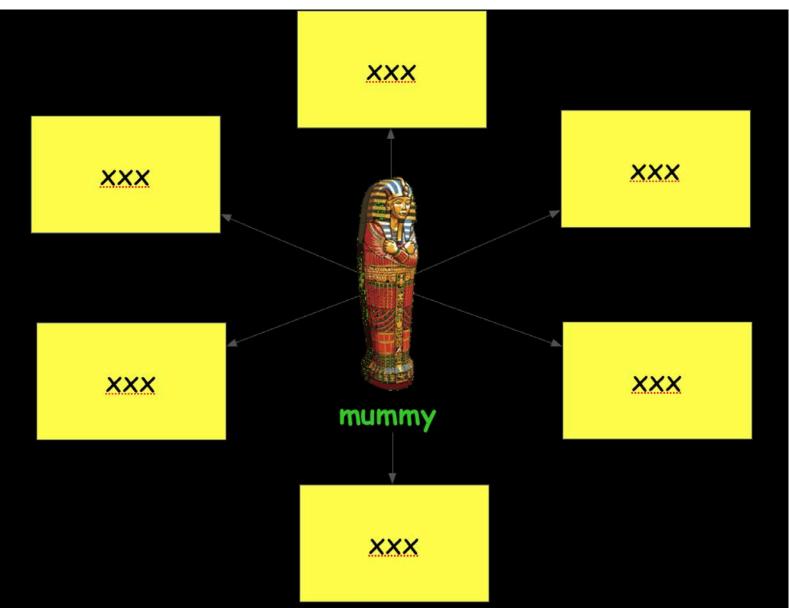


7<sup>th</sup> Graders: 3 with AAC Devices

Words spoken On AAC systems

Pick 1 word and do this before the shared reading!

## **Bubble Maps: Inspiration**

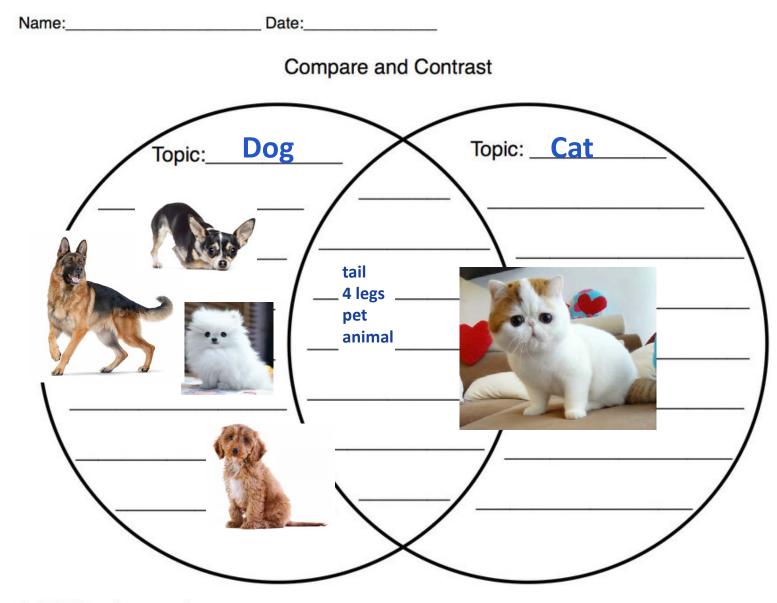


Errors are ESSENTIAL to Concept Development

## As much about knowing what

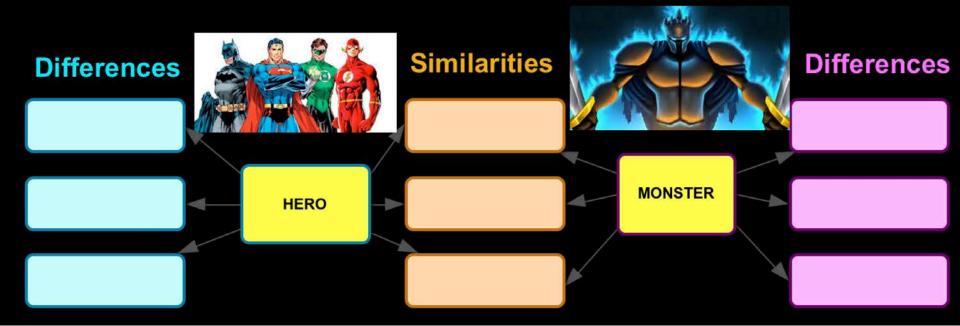
something is,

as what it isn't.



# **Inspiration – Compare / Contrast**

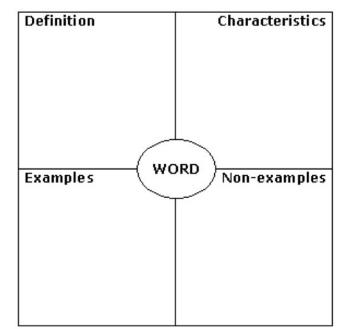
### **Compare and Contrast**



What are features that would help LG? How would you tweak this? Ancient / Modern

# **Frayer Model**

- Give kid friendly definition
- Describe its essential characteristics
- Give examples of the vocabulary word
- Give non-examples of the vocabulary word



### Definition

### **Characteristics**

### Dictator



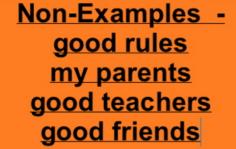
Short article: http://www.ducksters.com/biography/adolf\_hitler.php

### Definition - not okay; bad for some people



Examples - Jim Crow Laws

sister gets to do something jobs - some people get more <u>money</u> <u>politics</u> <u>sickness</u>



<u>Characteristics - laws;</u> <u>rights;</u>

### Vocabulary Exploration – Frayer Model

#### 4-Part Analysis

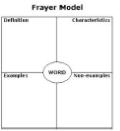
**WHAT:** The Frayer Model was developed by Dorothy Meyer and colleagues at the University of Wisconsin. It is designed to support students in gaining a deep understanding of new vocabulary words.

### WHY USE THE FRAYER MODEL: This model, in use for many decades, supports

students by helping them:

- Define the word <u>using kid friendly words</u>
- Describe characteristics of the word
- Provide examples of the word, and
- Offer non-examples

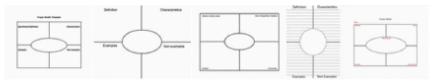
Each of these components is powerful in creating a deep understanding. For example, knowing what a thing is NOT can help us understand what it IS



#### MATERIALS FOR THE FRAYER MODEL:

A quick internet search will find templates for using the Frayer Model in various formats, including Word, PDF, and Inspiration, such as the images shown below.

#### Frayer Model Pdf - Image Results



#### SAMPLE FRAYER MODELS:

The sample to the right shows use of the Frayer Model with *Inspiration* software for the word 'trust' as used in *The Diary of Anne Frank*. Items shown in red were contributed by Marcus, using his AAC device.

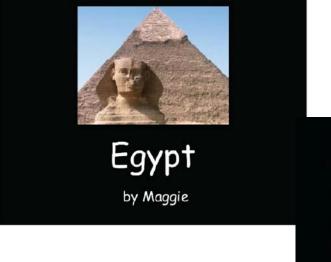


Frayer, D., Frederick, W. C., and Klausmeier, H. J. (1969). A Schema for Testing the Level of Cognitive Mastery. Madison, WI: Wisconsin Center for Education Research.



# Frayer Web: Tip

# How Can We Support MEMORY?



### Make a book, of course!!





P is for pyramid. People made the pyramids. Pyramids are big.

## Maggie's Books



## Egypt by Maggie

- Clean background
- Simple text
- Attention to color

### • Concept + image



3

Pyramid.



P is for pyramid.

### **Connection to alphabet**

- Words to describe.
- Predictable text.
- Could use the word
   IT to support modeling
   on device
- Students should help pick these words!



A pyramid is old. A pyramid is dry. A pyramid is hard.



A pyramid is an ancient structure built as tombs for the Pharoahs.

- Deeper connection to word.
- Simplified dictionary definition

# **Books As Reports**

- Accessible to student
- Provide visual supports
- Use a talking software / app
- Read it again and again memory support



**Book Creator** 

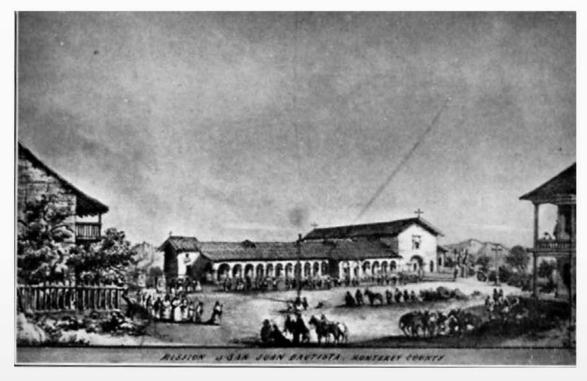
Make A Book



Pictello

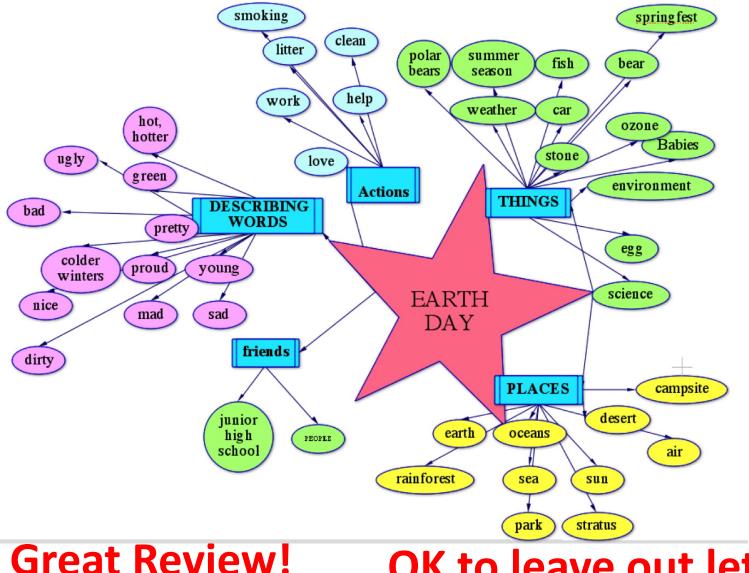


Mission San Juan Bautista was founded on June 24, 1797.



- Photos
- Text
- Speech (great voices)
- Humor

### **Brainstorm First, then pick letters**



### OK to leave out letters

### Photo Response Using AAC: Make It Into A Book





### PicCollage

• Each picture could be copied and used as a book page to review

• Narrate each page, adding information (e.g., The Yellow River looks funny. It really does look yellow. It is sad because many people got diseases and died.)

What tools would you use?

### **Can We Chat Book**

Cam We Chall? Co-Planned Sequenced Social Scripts

> A Make It / Take It Book of Ideas and Adaptations



Caroline Ramsey Musselwhite Linda J. Burkhart. www.teacherspayteachers.com

# OR, e-mail Caroline & Ask for it (for free)!!

### <u>carolinemusselwhite1@me.com</u>

### What Are Social Scripts?

**CC 4** 

- Interactions

   (joke-telling, life stories, chit chat)
- Beyond Wants and Needs ('real conversations)
- Support AAC users
  - claim a turn
  - start & maintain a conversation

# **Sequenced Scripts**

- Pre-planned steps
- Co-constructed by user and partner

Goal of social interaction

### **Step-Listing Devices & Apps**



Step by Step



### TapSpeak Sequence app



Pictello app

multiple messages
sequenced messages
text
videos



Total Talk app

### **Goal - Make communication:**

- Frequent
- Motivating
- Self-initiated
- Varied, to maintain interest
- Ongoing, with multiple turns
- With a range of partners, including peers
- A way to model a range of pragmatics
- Easy (do 'on the fly')

### **Remember Parallel Teaching!**

Any student using sequenced social scripts must also have goals and activities for developing skills that help the individual use language that involves more personal choicemaking, and is more generative.

Especially for students who struggle with ACCESS!

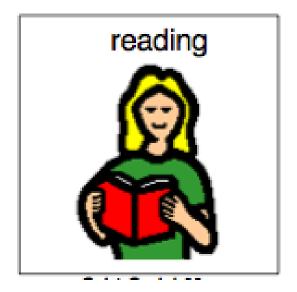
Or students who are learning the 'rules of engagement'

## **Types of Scripts**

- Action Scripts: Tickling; playing trucks and cars; high five; backrub
- Conversation Scripts:
  - <u>Chit Chat</u>: What did you do last weekend? Who's cute?
  - <u>Story Scripts</u>: Telling about something that happened
- Participation Scripts:
  - <u>Classroom activities</u>: morning meeting, directions for science experiment)
  - <u>Literacy scripts</u>: Alphabet activities, phonological awareness, sharing writing

# **Book Listening**

- 1 page per button / switch click
- student or partner turns page
- great for rehearsal
- student develops an 'ear print'





Reading to Younger Children Tips & Tricks!

- read to a small group
- make sure it's loud enough
- include 'crowd control' comments!

Book on high tech device Crowd control on step-listing

'Can you hear? ' 'Look at this!'

'Who wants to act it out?'

'Who wants to turn the page?'



- help pick a Poem-of-the-Week
- help record poem
- practice it
- perform it

**Issue**: The goal of the group is NOT Using an AAC device . . .

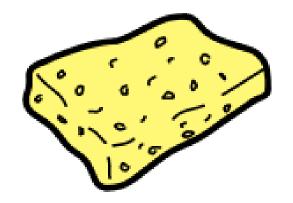
**Remember**: By kindergarten, the students are no longer learning to talk

But talking to learn!! Sooooooo,

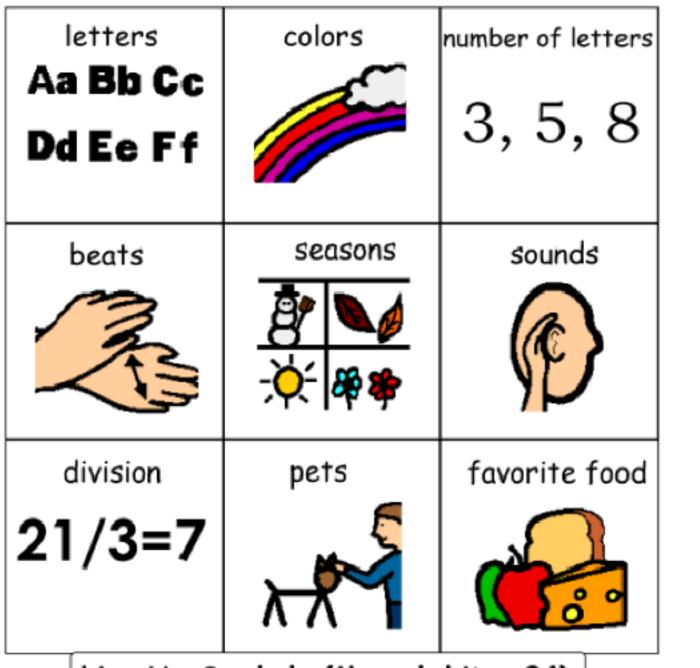
Dance with the Girl you brought!

# Line Leader

- wait, wait, wait
- using 'sponge time'



sneaking in literacy!



Line Up Scripts \* \* \* \* Find the literacy scripts!

Line Up Symbols (Musselwhite, 04)

### Interview Script Programmed on Step Listing Device

- 1. Hi there!
- 2. Got a minute
- 3. I am making a letter book and need your help
- 4. Do you have anything that starts with the letter "c" ?
- 5. Great! Can I take a picture of it?
- 6. Thanks so much!
- 7. Gotta go talk to someone else now.

### **Alphabet Action Man Script**

- 1. It's time for Alphabet Action Man!
- 2. The first letter is D.
- 3. Danielle picked the word DANCE.
- 4. Okay, everybody, get ready.
- 5. Let's dance, dance, dance for D!
- 6. Say it in your head this time.
- 7. Let's dance, dance, dance for . . . . D!
- 8. Next letter . . . Gabi picked an M.
- 9. She picked the word MARCH.
- 10.Are you ready? (etc)

Alphabet Action Man Game

#### **Alphabet Action Man!**

Lose the Drill & Kill - Make it FUN!!

**WHAT AND WHY:** Too often, students with significant disabilities are taught the alphabet through flip cards and other boring, inauthentic tasks. The Alphabet Action Man Game is a quick activity for making alphabet instruction fun and meaningful.

**WHO IS THIS FOR:** This game is great for students who are learning the alphabet, but needing to connect letters to meaning. It's also great for students who find it difficult to attend to lengthy instruction. The game offers a quick chance to engage with the alphabet while taking a 'movement break.'

#### HOW TO PLAY IT:

- When the students are starting to get antsy, let one student pick a letter. Note – be sure to let students pick from the entire alphabet. Sample ways to pick are:
  - a) Alternative pencils (ex: Alphabet Flipboard)
  - b) Magnetic ABCs app
  - c) Alphabet page on their AAC device / app

 d) Word Wizard app
 Note: Don't spend long picking a letter – this should be quick!!

- Have two people call out an action to go with the letter. For example, if the letter is J:
  - a) Teacher calls out 'Jog'
  - b) Para calls out 'Jive'
  - c) One student quickly votes for jog
  - All students 'jog' as leader holds up letter J (on popsicle stick) and chants "Let's jog, jog, jog for J"

**REMEMBER!** This should be quick and fun! Play this for 2-3 minutes, several times a day



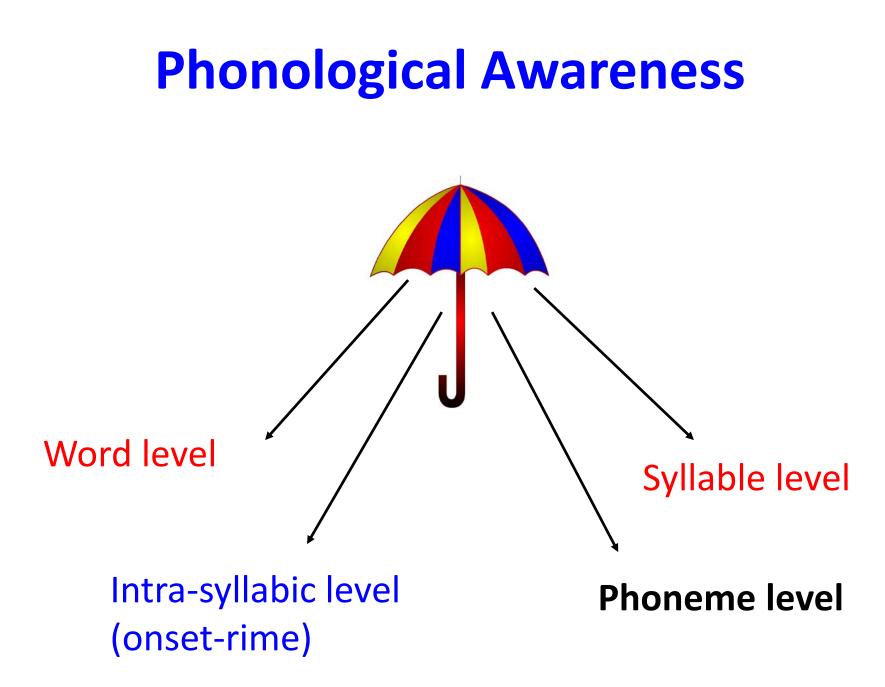
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# Alphabet Action Man Tip

### December, 2013 Tip

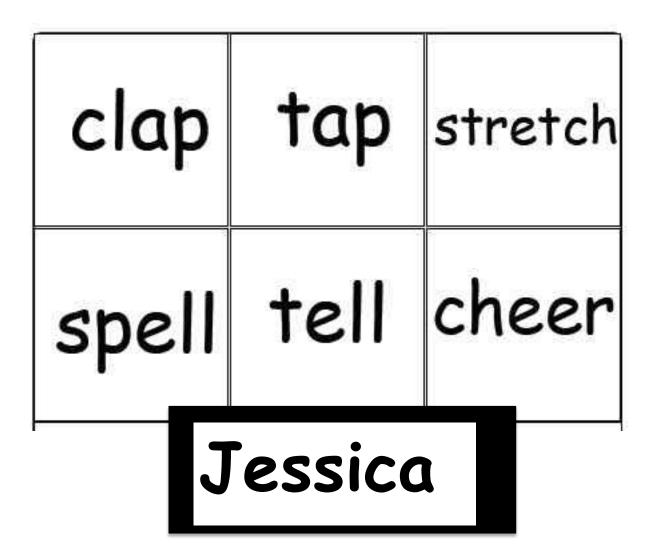
### www.aacintervention.com





Slide by Martine Smith

### **Name Song**



### **Name Song Directions**

Say This	Do This	
Clap your name	"Jess – i – ca" (clapping each syllable)	
Tap your name	"Jess – i – ca" (show 3 names and tap target name)	
Stretch it til it's long	"Jess – I – ca" (move hands apart, showing each syllable	
Spell your name	"J – E – S – S – I – C – A" (show name, with large print.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Point to each letter, but PAUSE before saying it	
Tell your name	Have student sign, say, or use a device to say their name	
Say it like a cheer	"Jessica, Jessica, Jessica!"	

**Raps & Chants for Older Students** 

#### Name / Word Chant

#### Supporting Phonological Awareness

**WHAT AND WHY:** Many older students have not developed phonological awareness skills, and need support. It is very important not to do activities that feel 'babyish.' The use of chants and raps can offer activities that are engaging but age-respectful.

#### NAME CHANT

This is a fun and easy activity. Use the names of everyone in the class or family . . . including your pets! It helps to use a simple chart, as shown to the right.

clap	tap	stretch
spell	tell	cheer

Say This	Do This
Clap your word	"be-cause" (dapping each syllable)
Tap your word	"be-cause" (show 3 - 9 words from word wall; student taps
	target word)
Stretch it til it's long	/beeee-cuz/ (move hands apart, showing each syllable)
Spell the word	"B – E – C – A – U – S - E" (show word, with large print.
	Point to each letter, but PAUSE before saying it
Tell the word	Have student sign, say, or use a device to say the word
Say it like a cheer	"be-cause, be-cause, be-cause!)

#### WORD CHANT

This is the same activity, but students are now chanting about word wall words. Pick 3 or 4 word wall words to clap and chant each day. *Tips*:

• 'Tap your word': use the 'wipe-off choice board' (see www.aacintervention.com , Tip # 3, 2016,) to display

3, 4, 6, or 9 choices, depending on student needs • 'Stretch the word': highlight onsets and rimes. For example, the word 'not' would be stretched as: /N - OT/rather than /N - O - T/. This will help students hear and identify the 'chunks' or rimes in words

• 'Tell the word': All students can call out word, or give each student a word in advance to call out • Inner voice: Remind all students (not just those who are non-speaking) to 'say it in your head.'





### Name Chant Tip

### 2018, Tip # 8 <u>www.aacintervention.com</u>

# Name Chant Script

Student: Alexis is struggling with access. She's working with the OT & SLP to improve access

She's leading name chants for morning meeting:

- The next name starts with 'D'
- So, who is it? Natasha? Derek? Jesus?
- It's Derek!!! Let's chant for Derek!
- The next name has 3 beats . . .
- Is it Ann? Marcus? Natasha?
- It's Natasha!
- Let's chant for Natasha!

### **Tongue Twisters**

- Start with 2 or 3 sounds that are important
  - D for Dad & Daniela (sister)
  - M for Maggie and Mom
- Make up twisters with 1 word missing
  - Students can pick the word to finish it

Mom <u>makes / milks / meets</u> messy mud. Mom makes a <u>messy / marvelous / mean</u> mud. <u>Matt / Mom / Mick</u> makes a messy mud.

### Students Use AAC System to Choose Words to Add

- Help students pick action words and describing words
- Partners should model where words are found



Words For Life – Feelings

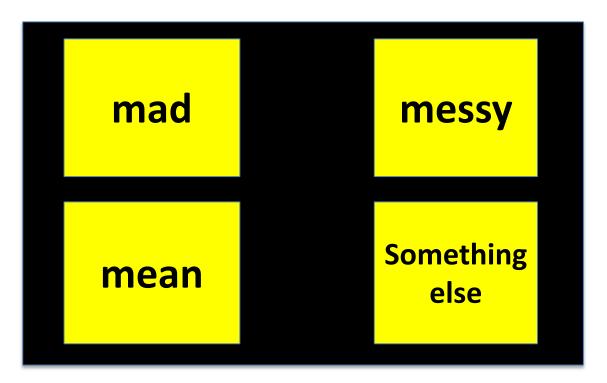


Touch Chat Basic 42 – Describe/ M

Use 'Talk-Alouds': 'I'm looking for <u>mad</u>. Let's see: FEELINGS . . . Let's find the one with the mad face . . .'

### Students Use AAC System to Choose Words to Add

- Then put choices on a wipe-off board
- Include 'something else'



Wipe Off PostIt Choice Page2016, Tip # 3 <u>www.aacintervention.com</u>

# **Sound Substitution Script**

The class has been reading Pizza Today from the Raps set.

Ava is leading rhyming chants for morning meeting:

- Pizza patza peric, pizza fell on \_\_\_\_
- Is it Eric? Manuel? Dorcas?
- Pizza patza peric, pizza fell on Eric!
- peric / Eric Eric / peric It rhymes!
- Here's another: Pizza patza Porcas, pizza fell on \_\_\_\_\_\_
- So who is it? Jamal? Manuel? Dorcas
   Etc.

# **Peer Conferencing**

Communicative Fi	unction	Sample Messages
Attention Getter(s)	Hi!	
	It's conference tim	ne!
Starter(s)	Ready to listen to n	ny writing?
	I've been working o	n this and need ideas.
	<student is<="" th="" writing=""><th>recorded here&gt;</th></student>	recorded here>
Maintainers/ Turn Transfers	So, what did you lik	e the best?
	Was there a part ye	ou didn't understand?
	Where could I add	some more details?
	Anything else?	
	Thanks very much.	
Closer(s)	I can't wait to hear	your writing now.

Script by Gretchen Hanser Sequenced Social Scripts CD, Musselwhite & Burkhart, © 2004

### **Book Discussion**

Communicative Fu	Inction	Sample Messages	
Attention Getter(s)	Hey!		
	What's up?		
Starter(s)	I am reading the co	olest book.	
	Want to hear about	it?	
	It's called <u>Holes</u> .		
Maintainers/ Turn Transfers	I really like one of t	the characters, Zero.	
Turn Transfers	It's a mix of real an	id fantasy.	
	What are you readi	ng right now?	
	What do you like ab	out it?	
	Interesting.		
Closer(s)	Better get back to	my desk.	
	Bye.		
	Script by Gretchen Hanse	ar	
Sequenced Social Scripts CD, Musselwhite & Burkhart, © 2004			

# short report

- recipe review
- story
- poem

# Share a Personally Written Piece!



# Summarize: List Poem

- Make a shape or a swirl
- Then type!

Path On Swipe to Type







**Rosa Parks** 

### List Poem:

Save As

How could we save as to make a poem to review other people / events / places, etc.

## **Poems for 2 Voices**

### Paul Fleishman

- Joyful Noises
- Big Talk
- WHY??
  - **Reading** GREAT for fluency
  - Reading purpose for reading multiple times
  - Writing great for comparing & contrasting
  - Writing great for sparkle words / strong verbs
  - Summarize what students know about a topic

### Writing In Content Areas: Poem for 2 Voices

I am a British soldier

I am a Revolutionary soldier

I wear fine black boots

I wear rags on my feet

I have plenty of food I am often hungry I speak English

I fight for the King George III I am a patriot

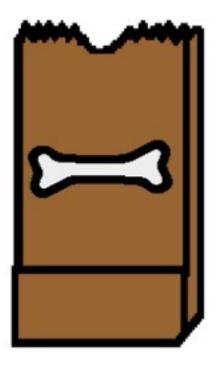
I fight for the superpower I fight for our rights

I am scared

### Movies



Don't Forget Your DOGGIE BAGS!!!



- Handout
- Language Lab
- AAC Intervention
- AAC Girls Blog
- SpedApps2 wiki
- TeachersPayTeachers.com
   <u>carolinemusselwhite1@me.com</u>