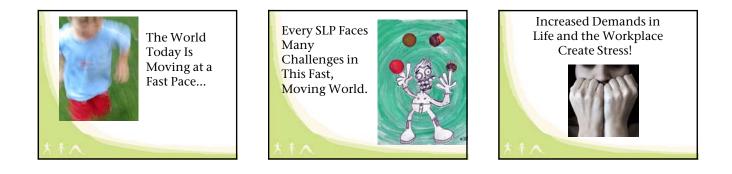




- Discuss causes and effects of stress & anxiety
- Demonstrate 3 learning styles
- Discuss the benefits of movement
- Teach at least 10 yoga poses including 2 breath techniques
- Implement yoga & learning into a daily practice

## Disclaimer

- No pain, no pain
- Listen to your body
- Don't do anything that will aggravate pre-existing injury
- Balance issues: Keep eyes open



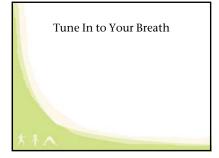
Stress Management and Job Satisfaction Are Within Reach With Simple, Easy to Use Yogic Techniques.

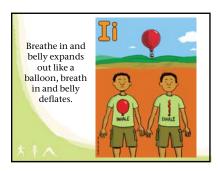


Solution: Incorporate Yogic Practices Into Your Life and Your Therapy







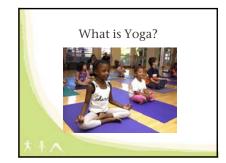




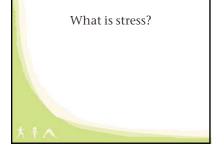


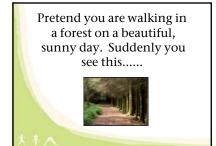
## How Did It Feel to Practice Long Deep Breathing?

Long, deep breathing calms the mind and soothes the nervous system.











## "Fight or Flight"

- Response to threat
- Can be positive for short emergencies
- Is negative when in a chronic state.
- Response is the body preparing itself to deal with emergencies



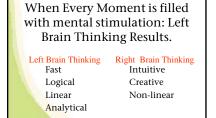


Autonomic Nervous System Stimulates Either the "Fight or Flight" or "Relaxation Response"

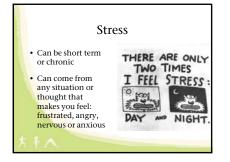




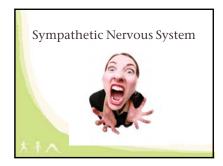






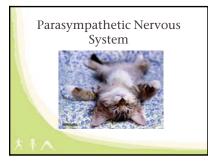


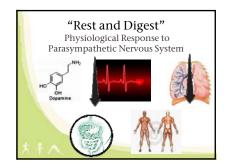


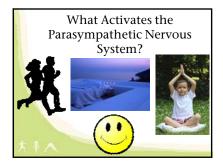


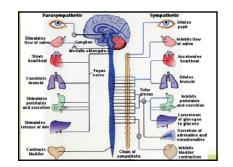
## Physical Symptoms of Stress

- Irregular breathing
- Sweaty Palms
- Racing heartbeat
- Digestive issues stomach ache, nausea
- Attention issues
- Tired
- Sick often

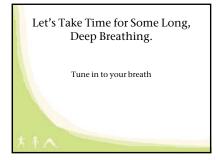


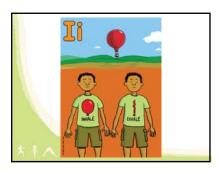












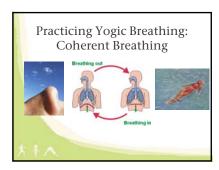


## Speech and Its Relationship to Breathing

- Speech and Yoga: <u>the link is breath</u>.
- You need breath to produce speech. (Sumar,2000)

## Breathing Can Affect Stress Levels

- Upper chest breathing
- Shallow breathing
- Breath holding
- Reverse breathing



## Yoga: Breathing **Incoherent Breathing**

- Rapid and shallow
- Live in a sympathetic dominant state
- Constant state of stress: "Fight or Flight"
- Counterpart to state of the mind. If you are stressed, you are holding your breath.

## Look for Sign of Incoherent Breathing With Your Students

Contra-indicated breathing can add to the anxiety of your students or may even be a MAJOR contributor of the anxiety.

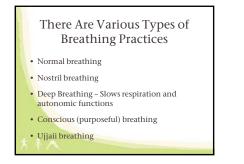
# the State of Your Mind

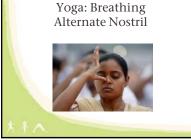
Breathing Reflects

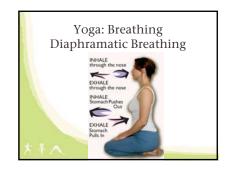
If you are *relaxed*, your breath is slow and deep.

If you are *stressed*, breath is shallow and you may even be unconsciously holding your breath.

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What Causes You to Feel Anxious?

What is Anxiety for you?



## The Definition of Anxiety

A feeling of fear/apprehension.

The source of the uneasiness is not always known or recognized, which can add to the distress felt.









Stress Can Affect Learning Restricts the number of newly generated neurons in the Hippocampus (short term storage of memory for new information).



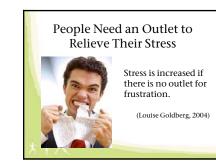


## Fact About Stress/Anxiety and SLI Kids



Children with SLI problems are 3 x more likely to suffer from social anxiety (social phobia) than children without problems. (Brenner, 2002)

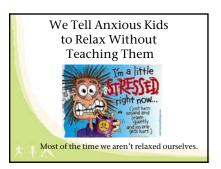
**Anxiety Affects Emotions** Anxiety affects Limbic system (emotions) which Releases adrenaline which ▲ Activates the Sympathetic Nervous System

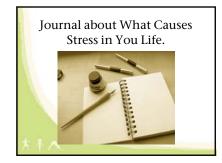


## Brain Development & Stress Long-Term Consequence

When under physical or emotional stress, the Sympathetic Nervous System releases **cortisol** which under high levels can cause brain cells to die and reduced the connections between cells in certain parts of the brain.





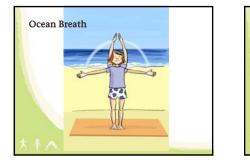




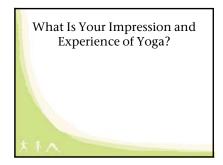
### What does Yoga Have to do with Speech Therapy? Studies have shown that many speechlanguage kids have:

- Motor-skill deficiencies
- Language delays
- Anxiety
- Social skill immaturity
- Some have aggressive behavioral tendencies











- Breathing purposeful
- Calming –
- Peaceful -
- Restorative -

Why use Yoga in Speech?

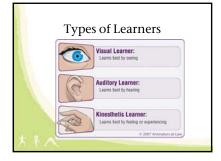
Yoga teaches children relaxation strategies that they can use at school and throughout their entire lives.



Yoga Incorporates Visual, Auditory and Kinesthetic Learning Styles

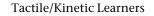
- Incorporates multiple intelligences (body, mind and spirit) and learning styles
- Breath and exercise
- Keeps nervous system elastic and able to deal with stress

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- Most people are more receptive to 1 or a combination of 2 types of learning styles.
- The predominant learning method taught in schools is visual/auditory learning.



- Kids are naturally tactile learners
- Born scientists
- Adults force them to conform









## Articulation Disordered Children May Have Motor Coordination Difficulties.

There is a relationship between articulation disordered children and motor coordination and soft neurological signs.

(Murata, 2004; Cemak et al, 1986)



## There Is a Build-up of Muscle Tension When Under Stress. • The tense muscles send signals to the body that

- there is danger which releases adrenaline or cortisol.
  Irritated or tight muscles are
- the most vulnerable. (Schatz, 1992)



## Yoga Stretches Helps to Relax the Mind

• Concentrating on the physical intricacies of different poses forces you to: Filter out the "endless tape loops" of chatter and fear allowing you to be present in the moment.

• This clears the mind of future and past worries. (Kalb, 2003)

## Yoga Stretches Break the Stress Cycle

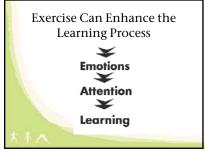
- The brain perceives muscle stretching as the opposite of muscle tension.
- The biofeedback from yoga stretches is a sense of safety and well being

## Yoga Teaches Children How to Deal With Stress and Anxiety

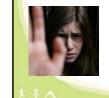
Yoga can simultaneously increase positive self talk, knowledge to stimulate the relaxation response, body awareness, breathing and flexibility.

## How Yoga Can Affect Learning

- Anxiety & stress reliever due to calming and restorative effects
- Improves receptive language through stimulation of vestibular and cerebellum
- Uses body as a spatial guide to learn
- Improves motor deficits which may
- improve SLI issues

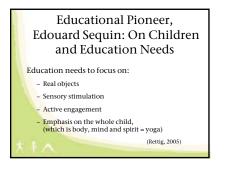


## Learning Is Enhanced When People Are Ready



lf students are anxious then it is not an optimal learning environment. (Jensen, 2000)





## Create Optimal Learning Environment

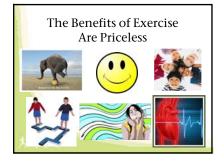
- What are the signs that the child is not ready to learn?
   Discouraged from succeeding
- Overwhelmed with information
- Solution is child needs a break.
- Yoga provides a break and gets the child ready to learn.

## Watch for Signs of Anxiety

- Shrugged shoulders
- Shallow breathing
- Cracking the neck
  Incessant, nervous talking



>If you see these signs STOP and work on getting student relaxed.



## Exercise Is Important to Learning

- Enhances oxygen flow to brain building connections
- Emotional balance mood altering neurotransmitters
- Stimulates creativity and expression
- Aligns with kinesthetic learning

# Exercise Is Important for Balance and Motor Skills

- Improves fine motor skills through control manipulation
- Improves gross motor skills
- Develops balance and spatial cognition

## The Benefits of Physical Education (PE) & Movement

- **Physiological** Decrease anxiety, tension and stress.
- Mental Well being, clear thinking, and builds confidence.

#### Comparison of Yoga and Physical Education <u>PE Yoga</u> Raises heart rate - Raises heart rate

- Improves coordination - Can be competitive - Involves turn taking - Favors most coordinated

## Non-competitive Complete participation

- Improves coordination

- Accessible by all
- Breath focused

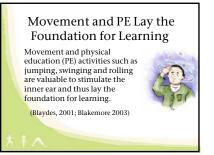
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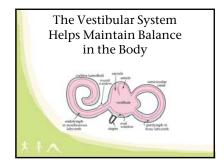
## The Brain and Movement: Cerebellum

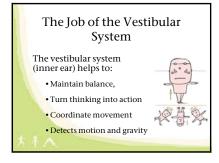
Cerebellum is a small portion of the brain close to the brain stem, commonly linked to movement. (Blakemore, 2009)
 Cerebellum – critical to

our attention system and coordinating movement.









#### The Vestibular System Is Related to Speech and Language Disorders.

- Major organizer of sensation, so it contributes to the acquisition of word understanding and speech.
- Anatomically joined with the cochlear system
- Has close neurological associations with the pathways for auditory processing and language.

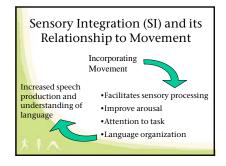
## SLI Children May Have Issues With Sensory Integration (SI)

Sensory Integration: Ability to use organize, integrate and use sensory information from the body and the environment.



#### The Vestibular System Affects the Nervous System

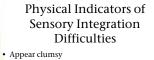
This explains why individuals may have problems **breathing** or may develop **nausea** or **irregular heart rates** when the system is **overwhelmed**.





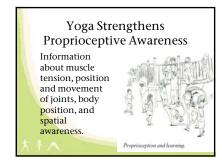




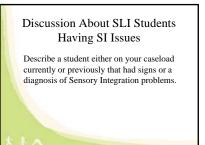


Fidgets

- Bouncing off walls (ADD/ ADHD)
- Slumped over desks
- Display unusual behaviors such as selfbiting, throwing themselves on the floor, chewing on inappropriate items such as shirt.







Incorporating Yogic Practices Into Your Life and Your Therapy

What Is Your Knowledge of Yoga?

## Yoga Consists of Physical and Mental Exercises Exercise – postures Breathing – purposeful

- Calming -
- Peaceful -
- Restorative -

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## Research about Physical Education and Learning

Research suggests that mental stress and anxiety can rob the brain of adequate oxygen. Proper breathing, developed though exercise can enhance the oxygen flow, reducing heart rate and anxiety. (Blaydes, 2001).

## Fine and Gross Motor Skills Related to Learning Relationship between motor skill development and speech-language

skill development.

If you improve motor skills then speech and language may improve. (Murata 2004, Hill 2001)

Incorporating Yoga Poses Into Speech and Language Therapy Will Help With Learning New Concepts.

IMPLICIT Learning, which is learning through your body is more powerful than EXPLICIT learning which is learning through text, facts and basic recall.

## Using ABC Yoga Cards Can Help Practice Students Goals

• Choose one goal and use the appropriate questions Alphabetic principal Phonemic awareness - Segmentation

Rhyming

## Yoga Exercise Can Helps Children Learn New Concepts Young children experience



need to physically concepts in order to truly grasp

Yoga Requires Knowledge of Spatial Concepts.

#### Using Your Body to Learn Can Help With Language Acquisition

- There appears to be a link between physical domain and speech-language skills. (Murata, 2004)
- Preschoolers interact with their environment with gross and fine motor skills.

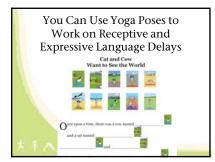
## Language Augmentation Strategies

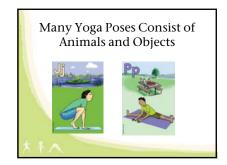
- Expansion: provides a more sophisticated version of what the child said. Restating the comment.
- Extension: adds information to child's language.



## Speech and Language Therapy Is Perfect for Yoga and Movement

Small groups of children (5-7 children) are ideal for using movement techniques. You can asking individual children to answer questions related to the movement.







## Yoga and Language Acquisition and Learning

- Spatial concepts and prepositions
- Vocabulary
- Wh Questions
- Alphabetical Order

## Practicing Yogic Techniques at Work Will Help You to Be More Productive

Yoga does not require a lot of equipment or time. It can also be done in small or large spaces.

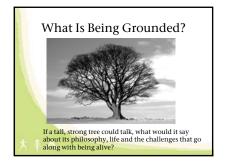


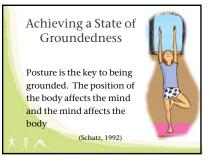
## How to Use Yoga for Yourself at Work

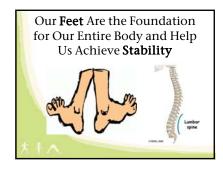


 How are currently using your breaks?

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## What Are the Characteristics of Educators Not Being Grounded? • Excessive checking of e-mail, v-mail, text, etc.

- Not organized
- Not prepared (mentally, physically)
- Not meeting own needs
- Not taking breaks.

## These are some of the Causes of Children Not Being Grounded?

- Unstable home
- Lack of a history of success
- Not having the basic building blocks of educational success (i.e. reading)
- Too much energy
- Too distracted (i.e. texting, electronic devices)
- Hunger/poor diet
- Stress at home

## Start Your S.P.E.E.C.H. Session by Grounding the Students

- Shoulders up to ears and back
- Posture: Ears in line with shoulders
- Easily inhale/ Exhale
- Chest open
- Heart lifted





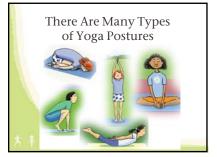
## Beginning Your Sessions With Yoga Is Stabilizing for Your Students

- Breathing
  - Exercises (especially grounding poses)
- Warm-ups
- Routine

Yoga Poses Are Designed to Achieve Various Emotional Effects

Depending upon the type of yoga pose practiced, the individual can achieve a desired state of mind.









## Seated or Floor Yoga Poses



## Yoga Basics: Goals

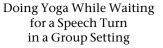
- Have a specific goal in mind.
- What do you hope to get out of this activity?
- How can you integrate to enhance and enrich experience for the child?

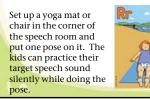


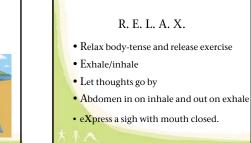




Provide a Visual Demonstration for the Poses Every Session The students will need a visual and auditory cues for each of the poses.

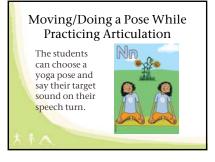












## Using Mantra Can Help to Warm up the Vocal Folds

Mantra helps the body relax by stimulating the upper palate thus activating the hypothalamus in the brain stem.

## These Techniques are Essential for Success

- Clear easy to understand directions
- Model (provide visual cues)
- Know how to do the poses yourself (practice)
- Easy movements
- New ideas: Max 12 mins to absorb information. With new info. give liberal breaks.

# Yogic Principal Can Be Used As a Theme for Speech Sessions

- Non-violence to yourselves and other
- Compassion for all
- Honest communication
- Not stealing Appreciating what you have
   Don't "steal"another person's turn
   Don't interrupt
- Not holding on to things Do your best!

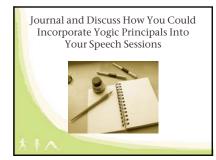
## **Yogic Principals**

- Purity/cleanliness: Respect self and space. Be responsible for own space--clean-up.
- Contentment: Be at peace with own circumstances
- Disciplined use of energy: Working with enthusiasm/directing energy. "Be present" Don't think about after class/future

## **Yogic Principals**

- Self-study: Commitment to get better. Work toward goals
- Skillful Mentor: Someone to help you. Be the mentor to your students.
- Slow down and take time for yourself.





You Can Use Visualization or Relaxation to End Speech Sessions Students can rest their heads on the table or just close their eyes in a chair while you guide them

through progressive relaxation.

y Q Guided Relaxation Exercise Helps the Mind and Body to Relax



Involving Parents in Using Yogic Techniques Can Provide a More Positive and Less Stressful Household



## How Will You Integrate This Information?

- Break into groups max 10 to a group.
- Each group gets 4 yoga posture cards (ABC)
- Each group must:
- Define population (students) served
- Practice the postures
- Integrate the 4 postures into a learning exercise for the students
- Demonstrate 2-3 mins. how you will implement.

## Final Activity

- Each group will have 15 minutes to discuss, organize and rehearse.
- Each group must:
- Demonstrate a learning scenario
   Define population
- State goals and action plan
- Demonstrate activity

## Review: How to Incorporate Yoga into Speech Therapy

- Take Breaks allow brain to rest
- Teach how to breath
- Use movement of cerebellum to activate learning.
- Use the body to learn- spatial concepts, stories, following directions.

