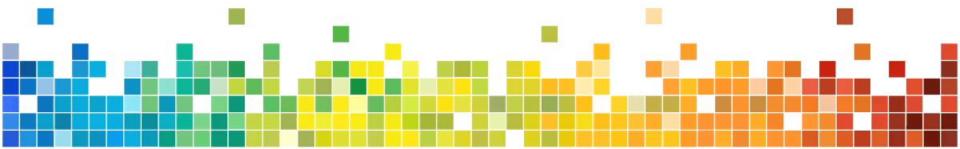
From Theory to Practice: Rehearsal Strategies for Anxious Students





to those who shared examples or input for the presentation!

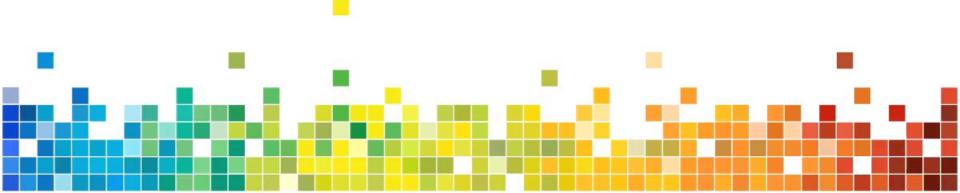
Raeanne Adams, Catherine Breault, Joe Burgess, Isabelle Cowan, Sheri Gallant, Dave Maloney, Jes<mark>s</mark>ie Park, Dr. June Groden



Part I:

Social Narratives: Variations on a Theme

Part II: Just Relax! Why Telling Doesn't Work



Rationale: Why these topics?

Are you using social narratives and/or relaxation strategies?

Do you have evidence that they are effective for your students?



Rehearsal Strategies

Goal: Deepen our knowledge

- Understand the behavioural principles involved
- Better identify which strategies are likely to be effective
- Match strategy to student skills
- More clearly differentiate and encourage correct implementation



Rule-governed Behavior: A *rule* is a verbal statement that implies that performing the behaviour as specified will lead to *reinforcement.*

A new skill or behavior may be acquired using a *description* of the contingencies without the person actually contacting them (in that moment).

Rule-governed Behavior: The contingency may be implied and does not have to have been experienced previously (i.e., Don't walk on thin ice!)

(N.B. Just being able to state the rule does not mean it will be followed)



Behaviour Rehearsal involves practicing appropriate responses, first under simulated conditions

 may include individuals imagining or thinking about themselves performing and responding appropriately to others.



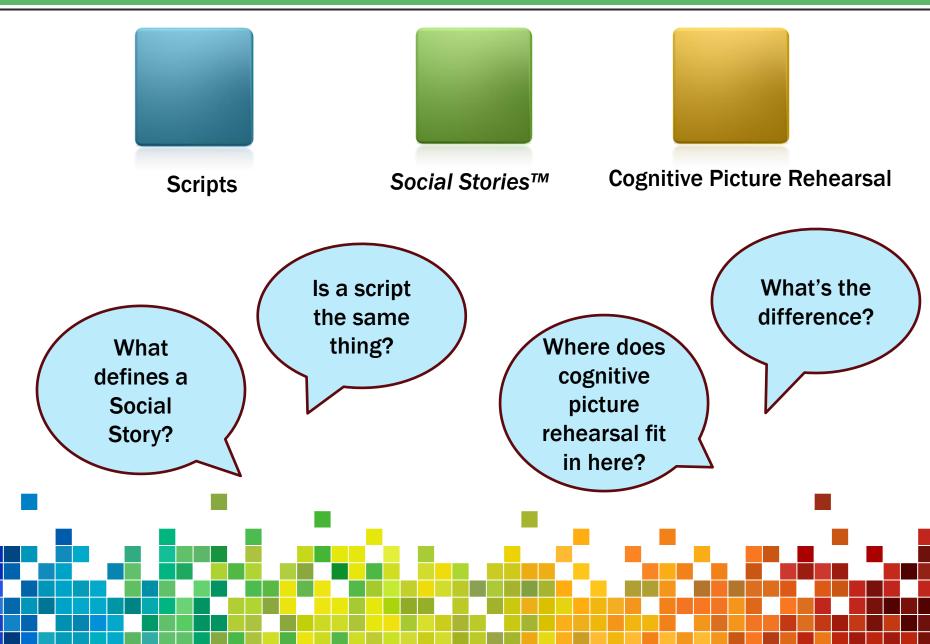
Behaviour Skills Training uses instruction, modelling, rehearsal and feedback to teach a new skill in a simulated context, then in the natural environment.



Focus Points

- What are social narratives?
- How do the variations compare to each other?
- How do we use and monitor these effectively?





Key Features

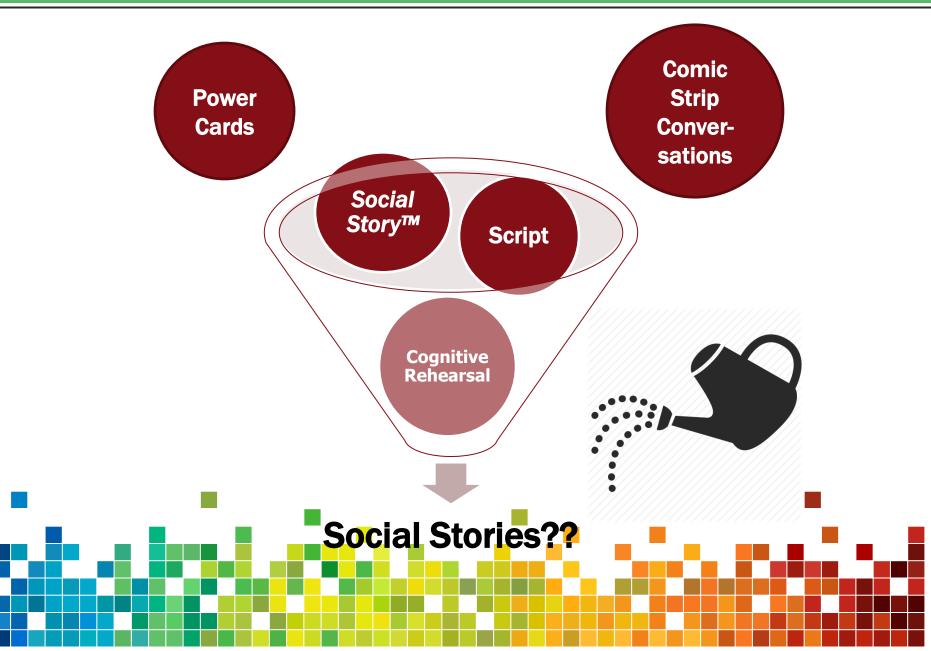
- Brief information presented in picture or text format that is descriptive of a situation or outlines steps in a sequence
- Individualized, written from the perspective of the learner
- Introduced and modelled through repeated practice until ready to be used in real-life situations



Key Features

- Topic varies widely across learning domains
- May provide a description of appropriate behavioral expectations and/or an explanation of the perspective of others
- Goal teach new skill; change maladaptive behaviour





- Approach that predates Social Stories
- Written and/or picture description of a specific skill or steps in a sequence
- Often used to teach a routine or familiar activity
- May be in outline or list format
- Purpose: provide cues for the learner to help organize and follow a process



- Task analysis helpful as a starting point
- Topics can vary widely (e.g., cooking project; steps to go to a movie; how to tie a shoe, etc.)
- Usually practiced and/or modelled repeatedly prior to use in actual situation
- May or may not include social interaction or maladaptive behaviour



1. Peel banana



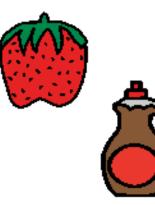
2. Cut banana.



3. Scoop ice cream

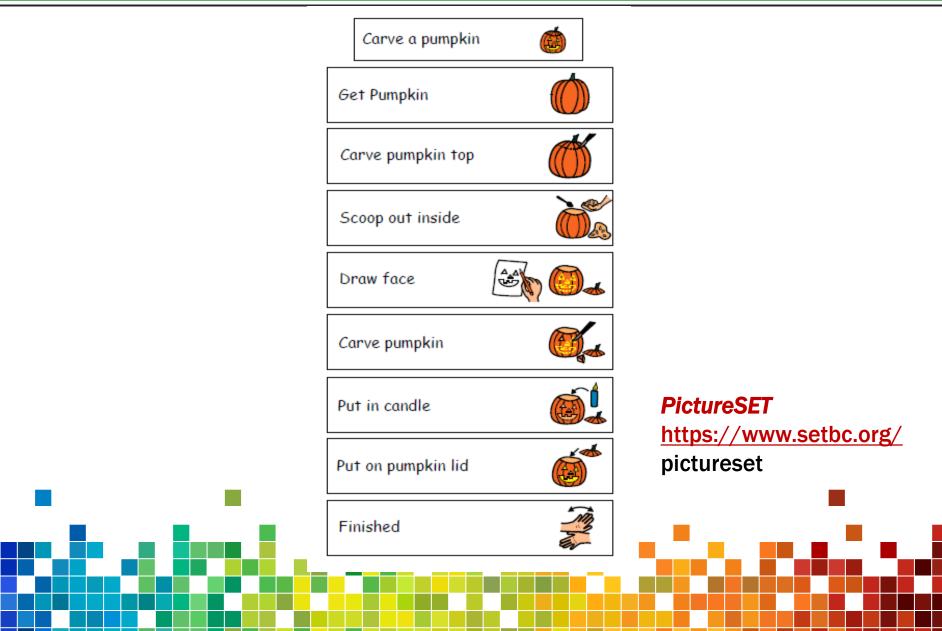


4. Pick toppings.

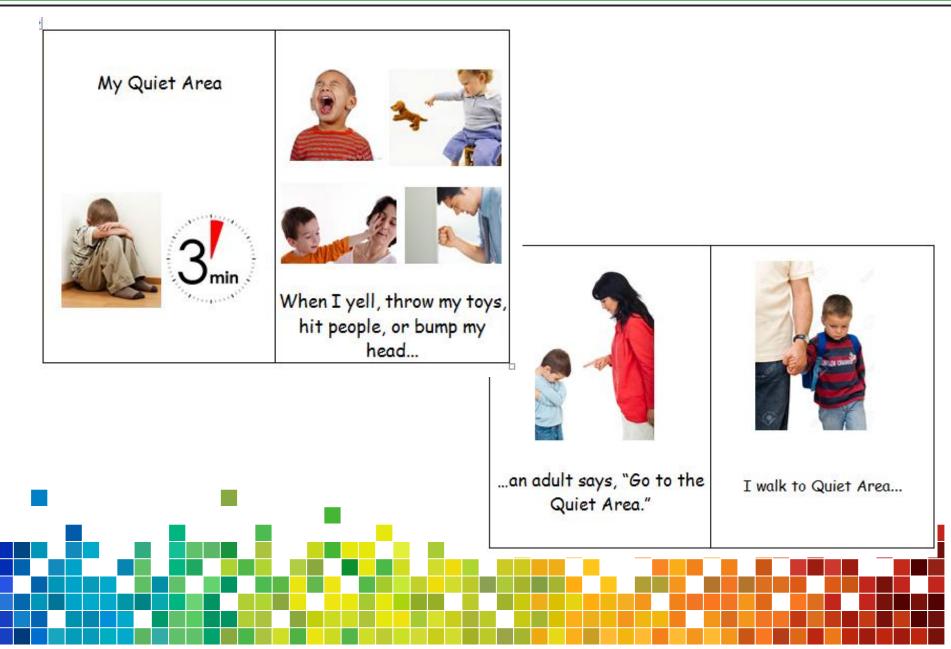


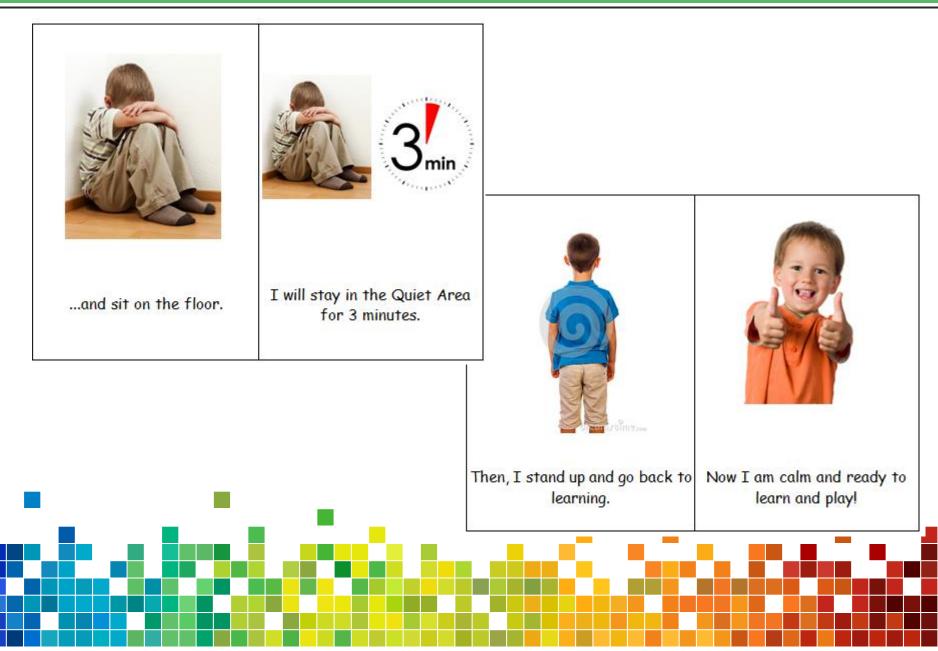


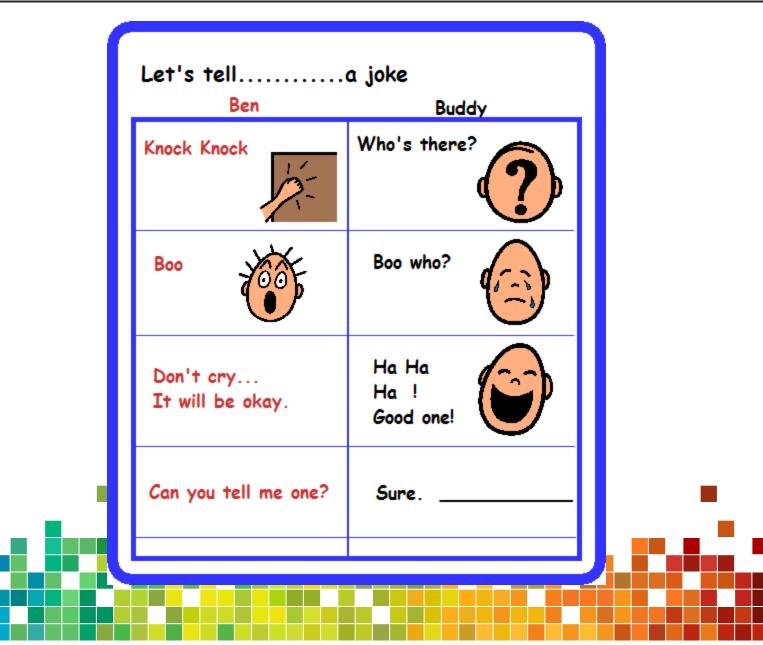
5. Eat and enjoy!



Time Out Steps	
Loud yelling, pushing	
materials	
Teacher says,"Go to time out".	
Walk to Quiet Room and sit on the mat. Door is open.	
Timer set for 3 minutes.	
3 ^{min}	
Three minutes done!	
Stand up and return to lesson.	
Calm and back to work!	
	(McLean, et al. 2014/2016)







Comparing Strategies





Social Stories[™]



Cognitive Picture Rehearsal

Uses task analysis Teaches sequence of new skill or routine Pictures and text serve as cue for each step



Social Story[™]

- Based on work of Carol Grey
- Main purpose is to describe, explain and suggest rather than direct specific behavior
- Addresses 'theory of mind' problems
- Describes social situations, highlighting relevant cues
- Social Story[™] follows specific formula of types of sentences



Social Story[™]

- Narrative based on teacher/parent observation and interpretation of what the social misunderstanding is
- Learner encouraged to read the story often and memorize the text
- May be more effective with children with language and self-awareness
- Definition affects research outcomes regarding effectiveness



Social Story Components

- Descriptive objectively define where, who, what and why
- **Perspective** describe reactions and feelings of others in the situation
- Directive positive statements of desired responses
- Control (optional) written by the student identifying strategies for recalling info



Picking Up My Towel

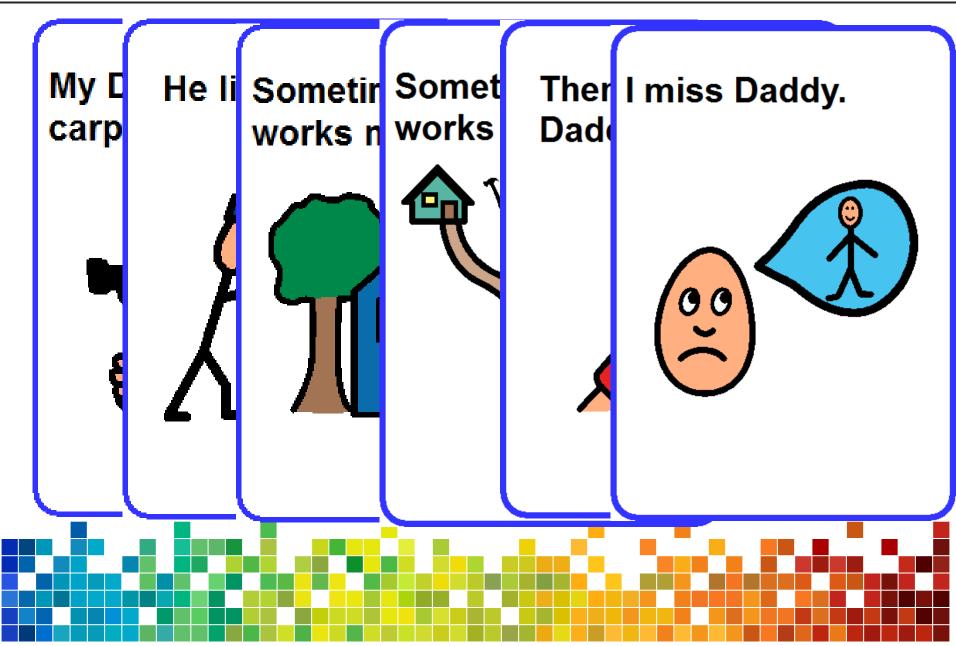
- When I take a shower, I use a towel.
- Towels help me dry off my body. Towels keep water off the floor.
- After I use my towel, it is wet. If I leave it on the floor, then it gets the floor wet. It may begin to smell.

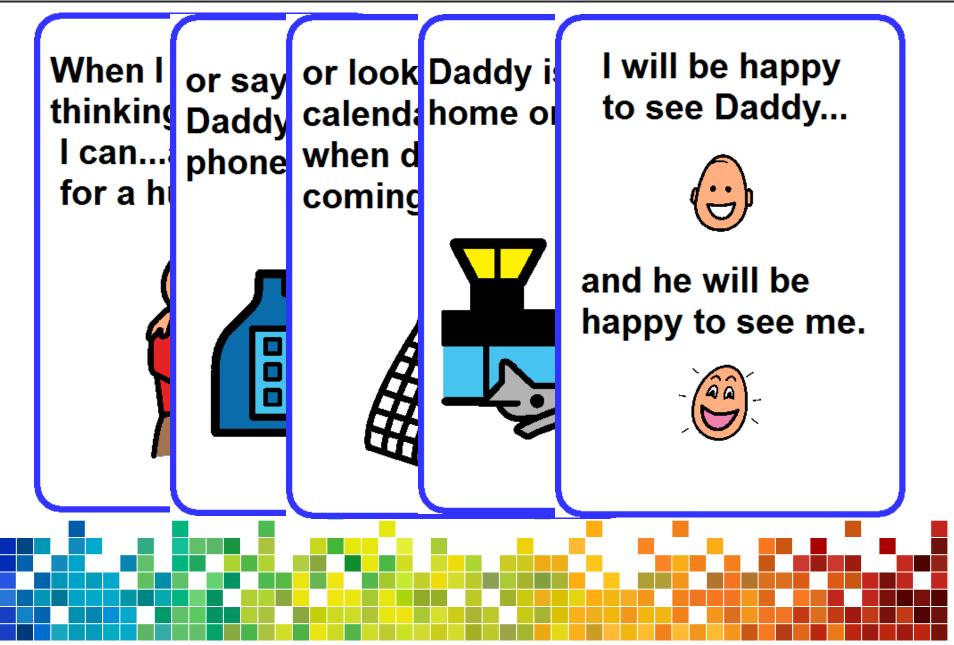


It will make Monica happy if I pick up my towel and put it in the hamper.

I will try to pick up my towel after my shower.







The Mommy Story

My name is Joey. My family is Mommy,

Daddy and my brother, Peter. We have lots of fun together. We like going camping and to the pool.

One day, Mommy's heart stopped working. This is called dying. That means Mommy is not coming home. Mommy went to heaven to be with Grandma.

This makes me sad. Daddy and Peter are sad too. Sometimes we cry if we are sad.
When I am sad, I can ask for extra hugs.
I can jump on my trampoline.
I can look at pictures of Mommy.
I can remember she loves me.
Remembering will help me feel better.



Daddy and my family will take good care of me now. Friends will still come on Friday. We will give each other extra hugs. After a while we will feel better. Mommy will watch us from heaven and send us her love.



Comparing Strategies





Social Stories[™]



Cognitive Picture Rehearsal

Uses task analysis Teaches sequence of new skill or routine Pictures and text serve as cue for each step Uses specific formula Describes social situation Includes social perspectives Non-directive



Cognitive Picture Rehearsal

- Instructional strategy closely aligned with the use of relaxation and visual imagery
- Based on covert conditioning research of Dr. Joseph Cautela, Dr. June Groden, and others
- Used with people with significant developmental disabilities as a means of replacing maladaptive behaviours



Cognitive Picture Rehearsal

- Text (rehearsal script or scene) is written and illustrated following functional assessment of the problem behavior
- Pictures or line drawings illustrate the antecedent, the target behaviour and the consequences (reinforcement).
- Relaxation and/or visual imagery is often incorporated into the script.
- Relaxation steps are taught first as a separate skill





The Wrong Mailbox

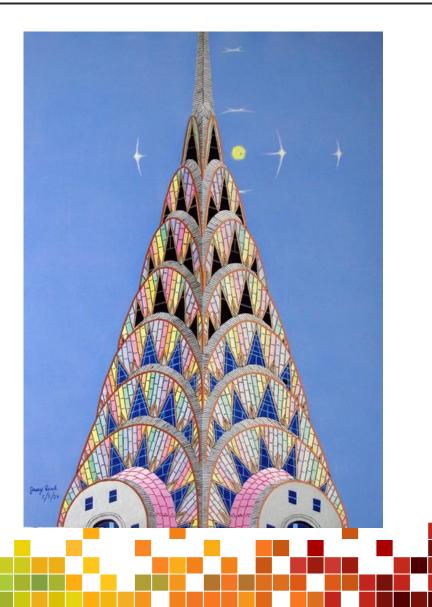
I work in the college mailroom. I match all the names and the addresses. I like to put all the letters and packages in *just the right slot*.

Sometimes someone puts a package in the WRONG SPOT!!! I start to feel REALLY ANGRY!

I stop what I am doing and sit down.

I close my eyes and breathe long and slow.

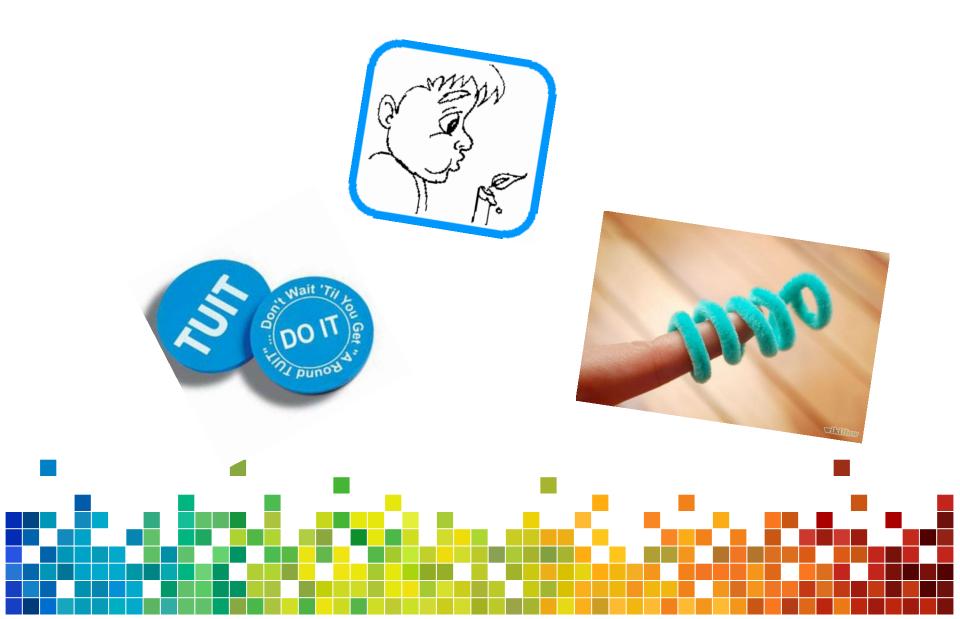
I think about how I feel when I am painting a picture of the sky.



I say to myself, "*It's NO BIG DEAL*!".

Time to get back to work (and put the package in the right spot).

Pairing Concrete Cues



Comparing Strategies





Social Stories™



Cognitive Picture Rehearsal

Uses task analysis Teaches sequence of new skill or routine Pictures and text serve as cue for each step Uses specific formula Describes social situation Includes social perspectives Non-directive Requires FBA Describes contingency Includes replacement behaviour and reinforcement May include relaxation/imagery



Narratives

Similarities

- Use pictures and text
- Individualized
- Teaching procedure
- Need for monitoring

Differences

- Purpose
- Preparation needed
- Prerequisite skills
- Content

Considerations

- Understand the behaviour first!
- Select the type of narrative to use based on the purpose and name it accurately
- Match the number and level of statements and illustrations to the learner
- Don't assume understanding of emotions in the text
- Provide adequate daily practice



Cautions

- Avoid introducing several strategies at the same time as it will make effectiveness unclear.
- Use of narratives brings increased attention to specific situations and behaviours.
 Sometimes ignoring is better.
- Choose wisely. Social narratives are not effective for everyone and may be inadequate when used as the sole intervention.

Summary

- Rehearsal of useful and functional skills with the aid of social narratives can be effective strategies, especially for learners who benefit from visual supports
- As with any evidence-based practice, careful planning, individualization and monitoring is needed





References

Baker, J. (2007). Social skills training for students with ASD and their peers. *The Best of The OARacle: A Compilation of Articles from 2002-2007*, 18.

Gray, C. (1993). Social stories: Improving responses of students with autism with accurate social information. *Focus on Autistic Behavior*, 8, 1-10.

Groden, J., & LeVasseur, P. (1995). Cognitive picture rehearsal: A system to teach self-control. In K. A. Quill (Ed.), Teaching children with autism: Strategies to enhance communication and socialization. (pp. 287-306) New York: Delmar.

References

National Professional Development Center for ASD Information and free tutorials on evidence based practices http://autismpdc.fpg.unc.edu/evidence-based-practices

Quill, K. A. (1995). Visually cued instruction for children with autism and pervasive developmental disorders. *Focus on Autism and Other Developmental Disabilities*, 10(3), 10-20.

Vicker, Beverly. *Behavioral Issues and the Use of Social Stories.* Retrieved from <u>http://www.iidc.indiana.edu/pages/Behavioral-Issues-and-the-Use-of-Social-Stories</u>





Just Relax! Why Telling Doesn't Work



Anxiety develops out of worry and becomes a problem when people change their behaviour to avoid a feared person, place or event.



Stress is the body's reaction to a perceived, anticipated or imagined danger or threatening situation. The stressful situation can be happy or unhappy.

How do we cope?

Buffers - adaptive responses to stress

- Talking with friends
- Participating in sports, hobbies
- Exercise
- Restful, calming activities
- Sleep
- Medical intervention



Challenges

- Communication skills may be compromised
- Difficulty understanding and expressing emotions
- Limited number of friends or support system
- Lack of self awareness
- Group sports often difficult

"I taught my student to use the relaxation steps, but he doesn't use it when he needs it"

"One on one? How do I build in time for this? Who should teach this? "

"My student thinks the breathing is silly and won't use it."



Relaxation

- Why teach relaxation?
- Which strategy do we use?
- How do we teach effectively?
- How do we target generalization?



Why teach relaxation?

- Functional skill with lifelong impact
- Can be used across environments
- Non-stigmatizing
- Perceived as neutral or pleasant in general
- Can be guided by parents or teachers
- Demonstrated effectiveness

Which strategy do we use?

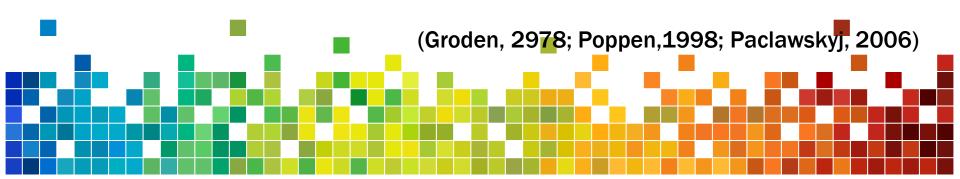
- Progressive Relaxation (PR)
- Behavioral Relaxation Training (BRT)
- Controlled Breathing
- Guided Imagery Goal: The Relaxation Response (physically calm and mentally alert)

Progressive Relaxation (PR)

- Focuses on teaching to recognize and label the difference between muscle tension and muscle relaxation
- Apply tension to each body part in top-down or bottom-up sequence, release and pay attention to the feeling
- Longer exercise, more conspicuous
- Flexible (use with as many or few body parts as appropriate)

Behavioral Relaxation Training

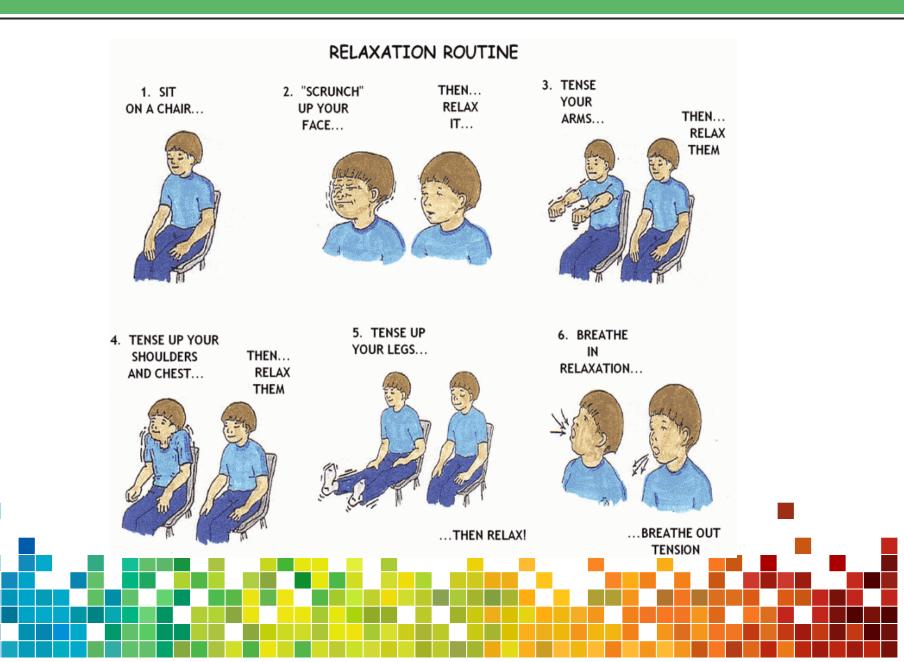
- PR techniques modified for developmentally disabled learners with limited verbal skills
- Observable responses defined and measureable; shortened sessions
- Rationale: engaging in the motor responses alone produces the relaxation response; no verbal reporting from the learner needed



Behavioral Relaxation Training

- Modelled/trained ten behaviours in specific order from large to small muscle groups (body, head, shoulders, feet, hands, throat, mouth, eyes, breathing, quiet)
- Able to acquire relaxation response more rapidly than other forms of relaxation training
- Average session, 7 minutes; average mastery, two hours

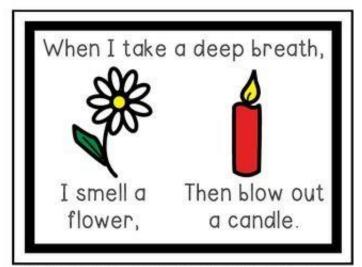




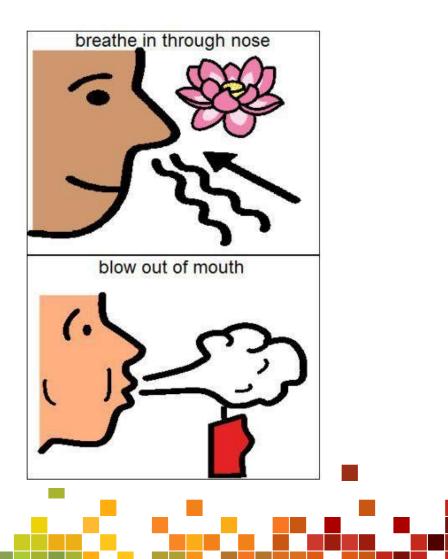
- Commonly taught in school settings
- Easy; focuses on breathing alone without any other activity
- Can be done unobtrusively, anytime, anywhere
- Slow, calm, "secret" breathing
- Practices are brief but frequent

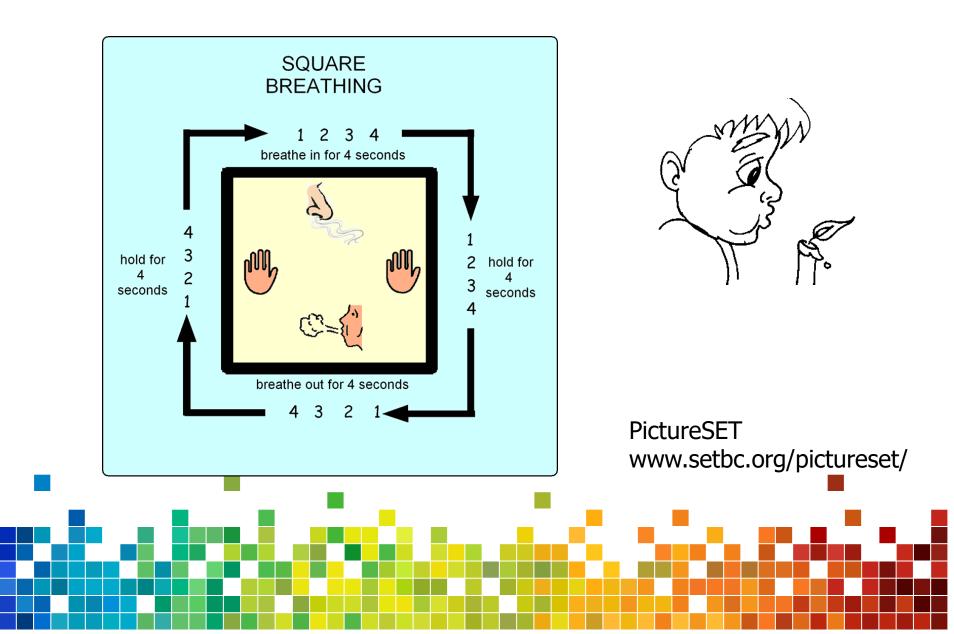


- **1. Sit comfortably**
- **2.** Breathe slowly and evenly
- 3. Breathe in through the nose,(slow count three)
- 4. Breathe out through the mouth,(slow count three)
- 5. Continue until calm



The Picture Communication Symbol (RPM-2011 to Player-Johnson LLE: All Pipels Reserved Viorithman Used with permission Rear Instances of Magnet Johnson LLC: (Oriented by Range Violation 2014)





How to teach relaxation effectively

- **1.** *Identify situations* or events that are associated with the problem behavior
- 2. Teach, model and practice until fluent in calm situations (BST)
- **3.** *Prime and prompt* in identified target situations. Reinforce!
- **4.** *Prime and prompt* in identified target situations across settings. Reinforce!
- 5. Reinforce spontaneous use

How to teach relaxation effectively

- Use role play and practice together with the learner a minimum of three times a day when NOT anxious
- Use visual, text or concrete supports if helpful for understanding
- Provide checklists or reminders to ensure practice occurs

(Chalfant, 2011)

Involve parents!

Tips from the Field

How can we make relaxation more accessible to learners with language and/or cognitive challenges?

- Teach fewer or simpler steps by combining them (e.g., hug yourself tight and release; teach only gross muscle groups first)
- Teach through imitation or with physical prompts
- Combine teaching with visual supports or concrete reminders
- Use simple and consistent language when teaching (1-2 words)



Tips from the Field

My student has difficulty with the breathing...sounds very loud and inappropriate.

- Use gestural or number/symbol prompts to help slow and quiet the breathing.
- Use more physical prompts to help the learner identify which body parts are involved.
- Use physical props to illustrate the way the breathing should look/sound (e.g., windmill toys, candle, balloon, fat straw)

The teacher/parent starts to teach this to the learner but gives up. "It isn't working".

- Has there been adequate and consistent practice (6-8 weeks)?
- Have the steps for effective teaching been followed?
- Do the steps and/or the visual supports need to be changed?

My student is in high school and thinks this is too babyish.

- Pair with a peer model; Use video modelling
- Emphasize as a powerful and private strategy "top secret breathing"
- Use imagery; build in special interest

outcomes

• Identify concrete reinforcers or positive

The teacher doesn't recognize early enough when they should prompt the learner to use the technique.

- Directly observe or involve the learner to identify the antecedents and/or precursor behaviours more clearly
- Provide many opportunities to practice evocative situations in a safe environment



Summary

- Relaxation skills can be a useful strategy
- Can be taught one on one or in a group
- Usually used to complement other intervention components
- Time involved can lead to significant positive benefits for the learner





Final thoughts.....

Breathe in.

Breathe out.

Let it be.



E-learning, Geneva Centre for Autism http://visuals.autism.net Video illustrating steps for relaxation and visual supports

PictureSET

www.setbc.org/pictureset

Relaxation picture sequence in French and English

References

Cautela, J., & Groden, J. (1978). *Relaxation: A* comprehensive manual for adults, children and children with special needs. Champaign, III: Research Press.

Chalfant, A. M. (2011). *Managing anxiety in people with autism: a treatment guide for parents, teachers, and mental health professionals*. Woodbine House

Paclawskyj, T. R., & Yoo, J. H. (2006). Behavioral Relaxation Training (BRT): facilitating acquisition in individuals with developmental disabilities. *NADD Bull*.

References

McLean, S., Breitenbach, M., Cowan, I., Jackman, P., Jozsa, S., & Michaud, J. (2014/2016). Current research regarding time-out. Autism in Education Partnership, Atlantic Provinces Special Education Authority, Halifax, Nova Scotia.

Paclawskyj, T. R. (2002). Behavioral Relaxation Training (BRT) with children with dual diagnoses. The NADD Bulletin, 5, 81-82.

Poppen, Roger (1998, 2nd Ed). *Behavioral Relaxation Training and Assessment*. Sage Publications



References

Williams, D.A. and Carey, M. (2003). You Really Need to Relax: Effective Methods. University of Michigan Medical school. Downloaded 4/20/16 from <u>www.med.umich.edu/painresearch/patients/Relaxation.pdf</u>



Buron, K. D. (2003). When my autism gets too big. A relaxation book for children with autism spectrum disorders. Shawnee Mission, KS: Autism Asperger Publishing Co.

Crist, J. (2004). What to do when you're scared and worried. A guide for kids. Free Spirit Publishing. Minneapolis, MN



Children's Books

Lori Lite Books, Stress Free Kids, Publisher

- Angry Octopus. An Anger Management Story for Children Introducing Active Progressive Muscle Relaxation and Deep Breathing to help Control Anger
- The Goodnight Caterpillar: A Children's Relaxation Story to Improve Sleep, Manage Stress, Anxiety, Anger
- A Boy and a Bear: The Children's Relaxation Book
- Sea Otter Cove: A Stress Management Story for Children Introducing Diaphragmatic Breathing to Reduce Anxiety, Control Anger, and Promote Peaceful Sleep



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