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Ask the Expert Educator Edition

Creating the Best Learning Environment for Students with ADHD



Sydney Zentall, PhD

The National Resource Center on ADHD: A Program of CHADD is the nation's clearinghouse for evidence-based information on ADHD. This Ask the Expert webcast is supported by Cooperative Agreement Number NU38DD005376 from the Centers for Disease Control and Prevention (CDC) and does not necessarily represent the official views of the CDC. The National Resource Center on ADHD, CHADD and the CDC do not endorse, support, represent or guarantee the accuracy of any content presented or endorse any opinions expressed in this webcast.

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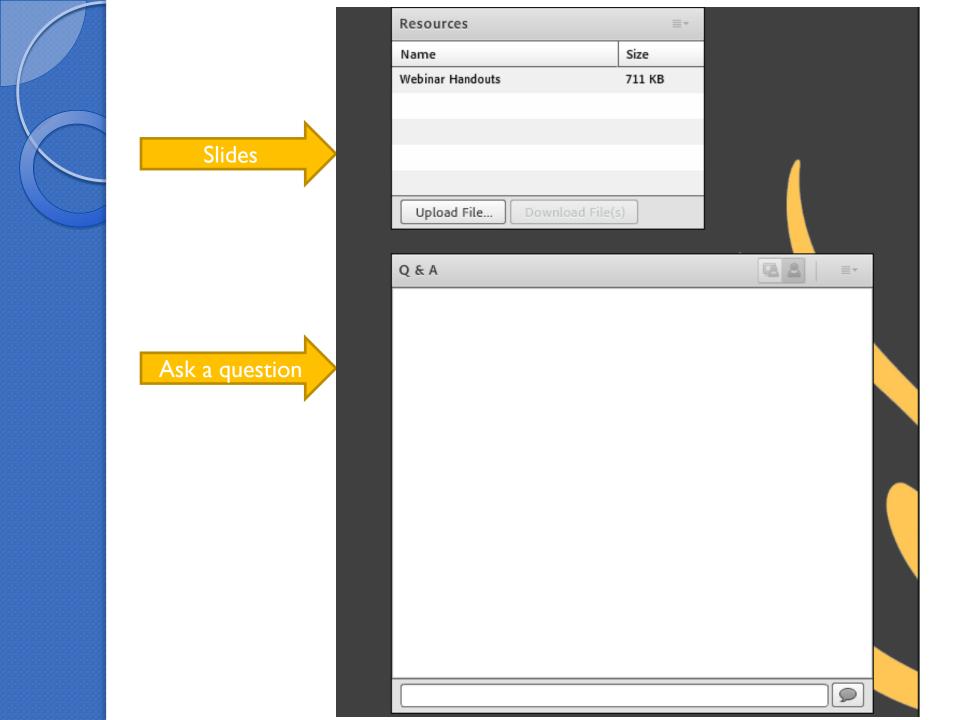


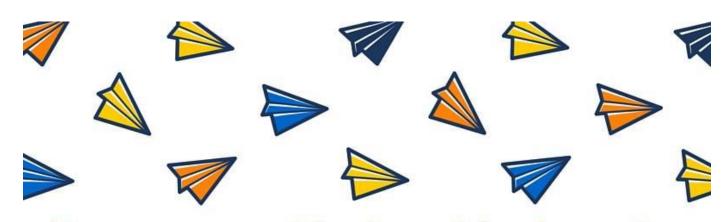
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Do you need help with choosing what direction to go?

Call and speak to an ADHD Information and Resource Specialist



1-800-233-4050, Mon-Fri, 1-5pm ET











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Optimal Learning Environments for ADHD Subtypes and Combined: Hyperactive/Impulsive and Inattentive

Sydney S. Zentall, Ph.D., Professor Emerita, Purdue University

Fails to sustain attention

OFF TASK: Visual, Verbal (off-topic), Cognitive (daydreams), and Physical (changes activities)

Type of task difficulty:

- 1. end of long and repetitive tasks
- 2. holding information in mind for planning/organizing, multiple steps, & language (working memory)

Type of situation difficulty:

- 1. end of day
- 2. maintaining routines

Modify Tasks to Sustain Attention

1. Short

- Chapters, short books, task analysis
- Increase pace of instructions
- Give HW assignments at beginning of lesson

2. Sweet Novel

- 1. Composition, oral language, memory (picture cues, CAI, games)
- **2.** Reading & Listening (Novel: challenge, surprise, excitement) Color added (overlays reading) Active responding (reading aloud vs. silently)
- Use of Strengths (incentives of preferred activities, as line leader, paper passer) and preferred tasks of problem solving, divergent thinking (multiple correct answers)

Fails to Selectively Attend= Attentional Bias (not deficit)

Socially—fails to note:

- 1. Subtle social-cues
- 2. Subtle internal cues (thoughts, values, strategies, feelings, past experience)

Academically, fails to note in a new situation or task that has

- 1. Many details
- 2. Overlapping visual and auditory backgrounds
- 3. Multiple descriptions

Listening/Reading and ADHD



Modify Tasks/Environments:

Reduce to global & highlight

No background conversations during complex tasks, esp. for younger students

Visually

Color added initially to details operations, early reading info, units of measure math)

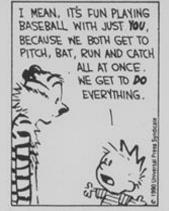
Use mirrors for less observable self

Verbally

Ask THEM questions (opinions strategies)
Highlight organizational **structure**With '**Do-**rules' situation specific (next cartoon)

CALVIN AND HOBBES









Hyperactive/Impulsive Subtype Sensation-Seeking Activity

YOUNGER

- up & down
- home accidents
- noise
- noncompliant

OLDER

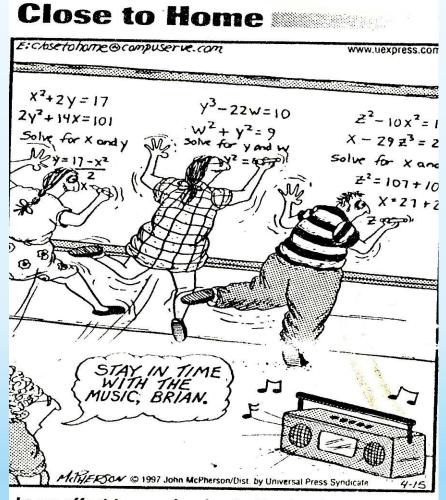
- talk
- car accidents
- few routines
- stirring up vs. getting into trouble



Modify Tasks/Environments for Activity

Activity Redirection

- Encourage activity replacement not reduction (sports, role play --act out history)
- Active tasks (working on board, role play)



In an effort to emphasize both physical fitness and academics, officials at Westbury High devised aerobic algebra.

More Novelty will Reduce Activity

- 1. Color
- 2. Science
- 3. Animals
- 4. Social Stimulation

Increase Social Stimulation: Use Peers



- Instruction-Checkers
- Homework Pals
- Tutors (including student as tutor)
- How to ask questions
- Work at tables

Use TeachersChange Teaching Format/Role



ADD Social Stimulation e.g., traveling teacher

Change Child by Requiring Activity-Stimulation in Class



Two seats



Timed stations



Messages
*in class
*outside

Require Verbal and Written Activity

- 1. Choral Responding -- fast pace helps practice the correct
- 2. Written Response Cards to assess understanding of instructions or knowledge (write brief answers on individual boards)
- 3. Voting to clarify differences of opinions (e.g., thumbs up/down)

Require Out of Classroom Activity

(e.g., during recess, breaks)



Provide Opportunities for Cognitive Activity



such as CHOICE of:

- 1. Learning content
- 2. Reporting methods
- 3. Order of tasks

IMPULSIVITY—delay is punishing

Task Performance:

Speed = careless errors

- Fast and inaccurate esp. on multiple choice
- Skims long directions
- Poor organizing & planning
- Difficulty waiting transitions

Social Behavior:

- Greater emotionality to good and bad life events!
- Impatient with slow action = bossy
- Often thrives on emotional responses (argues & negative statements); nonemotional reprimands
- Interrupts (cannot hold even their own thoughts)

Modify w/ reduced delays & fast-paced Younger Children

- Reduce wait time (individual transitions, self-paced tasks)
- Teach manners and situation-specific rules
- Have them restate events w/o punishment

Older Children

- Cross out incorrect on multiple choice
- During groups, take turns & justify responses
- Teach them what to say to be assertive.

Both

School wide discipline based on offense (not talking back, running in hall)

Summary Younger Student: Short & Sweet Tasks, Teach Delay with Alternatives, and Channel Activity

- INATTENTION = SHORT AND SWEET with added choice, projects, and high interest (space, dinosaurs, science, survival) and color placed on relevant information
- 2. IMPULSIVITY = teach DELAYING ACTIONS (pipe cleaners, write notes to teacher)
- 3.HYPERACTIVITY = increase ACTIVE INVOLVEMENT socially, physically

Summary Older Student

Reward persistence and effort more than accuracy
Use graphs to gradually increase expectations

- 1. HYPERACTIVITY = clubs, hobbies, & use of typing not handwriting
- 2. IMPULSIVITY = teach planning (task analysis) strategies, teach wait-a-day
- 3. INATTENTION = choice of content, use of visual cues, strategies for test-taking and time management (how to use of procrastination)

REFERENCES USED that provide summaries

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- 3. Zentall, S. S. (2006). ADHD and Education: Foundations, Characteristics, Methods, and Collaboration. Upper Saddle River, N.J., Pearson Merrill Prentice Hall.



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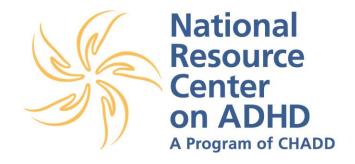
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