#### **IEP CONSIDERATIONS FOR STUDENTS WITH TBI**

These suggestions are intended to assist in addressing IEP requirements for students with TBI. Remember that the IEP is developed to meet the needs of the individual student. Use these suggestions only if they are relevant to the student with whom you are working.

**I. STAGES OF RECOVERY** The needs of students and families with TBI often change across their stages of recovery after injury. Below are some of the primary needs of students in early, middle, and late stages of recovery that may need to be addressed in the student's IEP. Remember that a list of common needs is not a substitute for the careful examination of individual needs.

**Early** (soon after injury)

- Safety of the student is a primary concern.
- The student may be in pain related to a physical injury.
- The student may have medical concerns such as seizures, and appropriate levels of medication may not be determined yet.
- The student may fatigue quickly and easily.
- Often, sensory and sensory-motor difficulties are evident. It is important to create an environment that does not over or under stimulate the student.
- The student may have limited attention and concentration skills for academic tasks.
- Families often need support at this time. They may have difficulty scheduling meetings and balancing competing needs.
- Middle (student skills are still steadily changing)
- The student may continue to show decreased alertness.
- The student may have an increased level of impulsivity.
- The student may continue to be disoriented during this stage.
- Some concrete academic skills may return, however the student may still experience difficulty with comprehension, problem solving and abstract reasoning.
- The ability to regulate behavior is often impaired at this stage.
- The family's concerns may change as the student's needs become more evident. Late (student skills and needs have become more stable and predictable)
- The student may continue to experience a delay in the ability to receive, process and respond to information.
- The student may have difficulty processing large amounts of information.
- Distractibility is still an issue.
- Weak cognitive and behavioral self-regulation impacts on social skills.
- Depression is a common concern during this time (particularly for adolescents).
- Identify the concerns of the family at this stage.

#### Many deficit areas continue to need attention across all three levels of recovery.

## II. GENERAL IEP CONSIDERATIONS

## A. Safety: Is there a need to consider

- health care needs (e.g., medication management)?
- emergency procedures (e.g., evacuation for fire and tornado drills)?
- general safety procedures (e.g., level of supervision on playground, in hallway)

#### **B.** Schedule: Is there a need to

- adjust the student's schedule (e.g., length of classes, time of day)?
- incorporate breaks and or study halls into the schedule?
- explore opportunities for extra curricular/recreational activities?
- review need for extended school year services if appropriate?

#### C. School environment: Is there a need to

- address environmental issues (e.g., noise levels, amount of activity, number of changes/transitions)?
- accommodate for physical barriers and mobility issues?

## **D.** Classroom instruction: Is there a need to

- modify instructional materials (e.g., large print, color, reduced content per page)?
- adapt instruction (e.g., use computer assisted instruction, books on tape)?
- include aids (e.g., computer, calculator, tape recorder)?
- adjust schoolwork expectations (e.g., quality, length, level of independence)?
- develop a cuing system (e.g., repetition, written/visual schedule, assignment notebook)?

## E. IEP Review: Is there a need to

• incorporate frequent IEP review as student recovery progresses or new needs arise?

## F. Other areas. Is there a need to

- address assistive technology needs (low and high tech)?
- provide transportation?
- consider alternate statewide assessment (in the applicable grades)?

## G. Additional general IEP considerations not covered above

**H. Consider the student's family.** Usually, families of students with TBI are under great stress following the student's injury. This may influence their needs and their participation in the IEP development, particularly the first IEP following the injury. For example, parents may need additional time or a copy of evaluation reports after determination of eligibility and before developing the IEP. What are other ways you can assist and support their participation as IEP team members?

**I. What are the MAJOR issues you need to address in the IEP at this stage after the student's TBI?** (Remember that the major needs of students with TBI vary across stages of recovery. Often, early after the injury, the student's safety, physical/health needs, and psychosocial needs must be addressed before the student is ready to focus intensively on academics.)

**III. SPECIFIC CONSIDERATIONS IN IEP DEVELOPMENT** (*Remember: a list of specific considerations is not a substitute for careful examination of individual needs.*)

#### A. Physical/Health

#### 1. Does the student demonstrate needs in the following areas?

- \_\_\_\_\_\_safety (e.g., due to poor motor planning, decreased judgment, impulsivity)
- \_\_\_\_\_some physical/medical procedures need to be performed at school ( e.g., tube feeding, catheterization)

\_\_\_\_\_medication management

\_\_\_\_\_generally reduced motor response time

\_\_\_\_\_fatigue

2. Identify the parents' concerns in this area

#### **B.** Cognitive

#### **1.** Does the student demonstrate needs in the following areas?

- \_\_\_\_\_decreased attention/concentration
- \_\_\_\_decreased memory
- \_\_\_\_\_difficulty with planning, initiating, and organizing (executive functions)
- \_\_\_\_\_diminished ability to adjust to change
- \_\_\_\_\_difficulty with problem-solving and decision making
- \_\_\_\_\_reduced speed of processing

#### 2. Identify the parents' concerns in this area

#### C. Communication

#### 1. Does the student demonstrate needs in the following areas?

- \_\_\_\_\_difficulty with word retrieval
- \_\_\_\_\_decreased social language (greetings, taking turns, asking questions)
- \_\_\_\_poor topic maintenance
- \_\_\_\_\_decreased vocabulary levels
- \_\_\_\_poor concept formation

#### 2. Identify the parents' concerns in this area

#### **D** Sensory and Perceptual

#### 1. Does the student demonstrate needs in the following areas?

- \_\_\_\_\_difficulty with visual tracking, visual field cuts
- \_\_\_\_\_difficulty with visual neglect
- \_\_\_\_\_difficulty with figure-ground relationships
- \_\_\_\_\_difficulty storing and retrieving information
- \_\_\_\_\_difficulty hearing
- \_\_\_\_\_difficulty with auditory processing
- \_\_\_\_\_decreased organizational skills

#### 2. Identify the parents' concerns in this area

#### E. Motor

#### 1. Does the student demonstrate needs in the following areas?

- \_\_\_\_\_decreased strength, endurance and flexibility
- \_\_\_\_\_decreased range of motion
- \_\_\_\_\_difficulty with static balance
- \_\_\_\_\_\_difficulty with advanced locomotor activities such as running, kicking, throwing, catching.

#### 2. Identify the parents' concerns in this area

#### F. Psychosocial

#### 1. Does the student demonstrate needs in the following areas?

- \_\_\_\_\_inappropriate social behavior (disinhibition)
- \_\_\_\_\_lack of awareness of the needs and perspectives of others (egocentricity)
- \_\_\_\_\_frequently acting without forethought (impulsivity)
- \_\_\_\_\_difficulty understanding humor
- \_\_\_\_\_inappropriate affection towards others
- \_\_\_\_\_verbal and or physical aggression
- \_\_\_\_irritability
- \_\_\_\_depression
- \_\_\_\_anxiety

#### 2. Identify the parents' concerns in this area

#### G. Does the student demonstrate additional needs in any of the above areas?

## IV. TYPICAL SUPPLEMENTARY AIDS, SERVICES, AND OTHER SUPPORTS For further information, consult <u>Educating Students with Traumatic Brain Injuries: A Resource</u> and Planning Guide (Corbett & Ross-Thomson; Wisconsin DPI, 1996) and strategies listed in

**Module IV.** *Remember that a list of typical aids, services, and supports is not a substitute for the careful examination of individual needs.* 

- supervision as needed
- extended time requirements
- reduced schedule
- modified academic work load and/or additional study halls
- consistent routines
- extra set of books to be kept at home
- ability to leave class a few minutes early or late to avoid hallway congestion
- preferential seating
- provision of study guides
- reduced assignments
- assignment notebooks
- special education classroom support
- check in with adult at beginning/end of school day
- modified instructional materials
- books on tape
- accommodations for slower work rate
- provision of additional structure, prompts and cues to ensure success
- peer assistance
- use of paraprofessional aide
- others \_\_\_\_\_
- \_\_\_

## V. PROGRAM MODIFICATIONS OR SUPPORTS FOR SCHOOL PERSONNEL

- staff training
- consultation with knowledgeable others (medical, community, families, etc.)
- team teaching
- others \_\_\_\_\_
- \_

Module IV: Planning to Meet the Needs of Students with TBI

### IEP Activity Instructions

Student:	Jerry	Grade:	5	Date of Injury:
School:	Glennwood Elementary	School		Current Date:

#### LARGE GROUP (25-30 minutes)

**I. Read aloud** the case study of Jerry presented on page 7c and the description of Jerry's parents' experience on pages 7d-e.

# **II.** Large Group Discussion. Refer to the Information Gathering Worksheet on pages 7f, g, h. Complete the first two sections of the worksheet as you discuss the following questions:

A. What do we know about Jerry's brain injury?

B. What do we know about Jerry's pre-injury functioning?

C. What was Jerry's parents' experience during his injury and hospitalization? What are their concerns?

D. Who would you suggest be included as members of Jerry's IEP team? Would you include Jerry?

#### III. Read silently Jerry's Discharge Summary (pages 7i, j, k).

#### **SMALL GROUPS** (20-25 minutes)

**IV. Divide into small groups.** Jerry has been referred for an IEP team evaluation. Each small group will identify Jerry's current functioning and needs in one of the areas noted on the Information Gathering Worksheet (pages 7f, g. h.) These include: **Cognition, Speech and Language/Communication, Sensory and Perceptual Abilities, Motor Abilities, Psychosocial Skills, Physical/Health/Safety, and Academic Skills.** 

**V. Select a recorder/presenter** to present the information your group obtains to the large group.

**VI. Review the existing information relevant to the area of functioning** assigned to your small group.

A. You have **three additional sources of information** available to help you identify Jerry's functioning and needs. Review the report(s) relevant to the area of functioning you are examining:

1. Hospital speech/language therapist report (pages 7l, m)

- 2. Hospital occupational therapy report (pages 7n, o)
- 3. Hospital physical therapy report (pages 7p, q)

B. Complete the three columns of the Information Gathering Worksheet for the area of functioning assigned to your small group:

1. What is the student's current functioning in this area?

2. What needs does the student exhibit in this area? Does the IEP team need additional information?

3. If the student needs special education, how can these needs be addressed in the IEP? (Refer to IEP Considerations)

## LARGE GROUP (30 -40 minutes)

## VI. Small groups report on the information they have gathered regarding each area of functioning. For each area of functioning consider:

- What is Jerry's current functioning in this area?
- What needs does Jerry exhibit in this area? Does the IEP team need additional information?
- If Jerry needs special education, how can these needs be addressed in the IEP?
  - A. Cognition
  - B. Speech and Language/Communication
  - C. Sensory and Perceptual Abilities
  - D. Motor Abilities
  - E. Psychosocial Skills
  - F. Physical/Health/Safety
  - G. Academic Skills
  - H. Assistive Technology

VII. Assume your IEP team has gathered any additional data needed, that Jerry meets criteria for TBI, and that he needs special education and related services in the areas of speech and language, occupational therapy, and physical therapy.

A. What information would you include in Jerry's present level of academic achievement and functional performance?

B. What are the MOST IMPORTANT issues you would want to address in Jerry's IEP?

C. Develop an example of an annual goal an IEP team might include on Jerry's IEP.

VIII. Examine examples of present level of academic performance and functional performance contents and goal on page 7r and 7s.

## Module IV: Planning to Meet the Needs of Students with TBI **JERRY**

Jerry is an eleven-year-old fifth grade student who was transferred by air ambulance to the Midwest Medical Center intensive care unit. He was injured in January while sledding near his home. Jerry rode his toboggan down a hill into the street and was struck by an automobile. Upon admission he was unconscious, with a Glasgow Coma Score of 8. He remained unresponsive for eleven days. An MRI conducted six days following his injury revealed that Jerry sustained midbrain and right frontal-temporal contusions. No other focal findings were evident. An EEG at the same time revealed a generalized disturbance with focal findings to the left hemisphere. Jerry is right-handed.

When Jerry was in the fourth grade his teacher raised concerns about Jerry to the school's Building Team because Jerry was not "working up to his ability." The teacher reported that Jerry was not completing his homework, he appeared uninterested in classroom activities, and he had few friends. When efforts to intervene to improve Jerry's performance failed, an IEP team evaluation for learning disabilities was conducted. Jerry's performance in reading, spelling, and math were consistent with late third grade skills. On the WISC-III Jerry obtained a Verbal IQ of 115, a Performance IQ of 112, and a Full Scale IQ of 115. Jerry did not meet the criteria for learning disabilities. The IEP team concluded: "In summary, it appears that Jerry demonstrates adequate intellectual abilities and academic skills needed to achieve expected tasks. However, he is experiencing what appear to be feelings of insecurity and increasing disinterest in school. Jerry has few friends in school, but he participates in community activities such as little league baseball." Jerry's fifth grade teacher initiated a behavior program with Jerry. She gave Jerry a baseball sticker each day he turned in his math homework. It seemed to be working, and before Jerry's injury, she was planning to expand it to language arts and science homework.

Once Jerry regained consciousness after his injury he was transferred to the Anderson Rehabilitation Center near his home. His doctor and parents were encouraged by his progress. Initially, Jerry experienced significant left side weakness, limited expressive language, and limited fine motor control. However, with therapy, Jerry rapidly regained skills. As his recovery progressed, Jerry was able to walk moderate distances with brief rests when he became tired. His speech improved, but Jerry experienced difficulty with word finding, which frustrated him. His memory for remote events was excellent; he could remember the names of all the teams in his little league division. However, his parents were puzzled by his spotty memory for recent events. For example, one day he remembered that his grandparents had visited earlier in the day, but he didn't remember what he ate for lunch. While Jerry was in the hospital the staff monitored him closely because at times he wandered into other patients' rooms.

Jerry is about to be discharged from the rehabilitation center 60 days after his injury. His parents are eager for Jerry to return to school, but they want Jerry to recover at home for a week or two first. His teacher referred Jerry for an IEP team evaluation as soon as he regained consciousness, and several IEP team members have visited Jerry in the hospital. They are concerned about meeting his needs in school because his needs have appeared different every time they have seen him. The IEP team has agreed to complete their evaluation as soon as possible so Jerry can return to school within two weeks.

#### **JERRY'S PARENTS**

Jerry lives with his mother, Sue, his father, Bob, and his two siblings, Katie, age 13 and Robbie, age 7. At the time of Jerry's injury, his parents were both at home. Katie was at a movie with friends and Robbie was sledding with Jerry outside the house. Sue had always worried about the boys sledding on the hill near the street, but Bob thought it was fine. Immediately after the accident, the automobile driver called 911; an ambulance arrived within two minutes and transported Jerry to the local hospital. Sue rode with him in the ambulance while Bob drove. Robbie wanted to go with to the hospital, but Bob left him with a neighbor. Bob and Sue forgot about Katie, but Robbie watched for her to come home.

When Jerry was transported to Midwest Medical Center, Sue accompanied him and Bob drove the hour-long trip. Bob and Sue knew Jerry's injuries were serious from the comments and actions of the medical teams; his parents thought Jerry would die. They began to be more hopeful after about 24 hours in the Medical Center, when Jerry had come through surgery to insert the intracranial pressure monitor and the doctor said Jerry was medically stable. His parents stayed by his bedside; after 24 hours they took turns napping in a chair in the room. Sue called her sister and made arrangements for Katie and Robbie to stay with their cousins. Katie begged to come to the hospital, but Sue said no; Sue told her daughter that Jerry was going to be fine. Bob drove home to get clothes for himself and Sue.

Sue stayed at the hospital night and day with brief visits home until Jerry became more responsive and gradually regained consciousness. After he was transferred to Anderson Rehabilitation Center she drove back and forth each day to be with him during his therapies. Jerry was often agitated in the evening, so Bob drove to Anderson every evening while Sue went home to put Robbie to bed. They hired a teenage babysitter to come to the house to fix dinner for Katie and Robbie and help them with homework.

When Jerry was admitted to Anderson, Sue and Bob were optimistic about Jerry's future. They had heard that Anderson was a terrific treatment center; nationally known football players had come there for rehabilitation. As Sue watched Jerry in physical and occupational therapies, she was thrilled to see him walking; when he started talking again, even though it was only a few words, she felt she had her boy back. She was sure he would recover fully, in spite of the cautions from the medical staff. But as February progressed, she and Bob became more concerned. They could see Jerry had a long way to go to get back to normal, yet his doctor and therapists were beginning to talk about discharge. Jerry still was unsteady walking, he couldn't pick up small objects with his left hand, he was impulsive – sometimes even going into other patients' rooms- and his memory was spotty. Sometimes he remembered their visits and what they talked about; other times he forgot.

Jerry was discharged from Anderson earlier in the week. Bob and Sue don't think Jerry was ready to go home. They wish he could continue to get more intensive therapy, but the doctor says Jerry will do better at home and school. Bob and Sue are hoping that Jerry will get an intensive therapy program at school. His parents have talked with Jerry's teachers and with the director of special education. Until Jerry was evaluated for learning disabilities last year they hadn't known anything about special education; they are still unclear about how it works. Jerry's teacher said she is looking forward to Jerry coming back to school, but Sue and Bob have seen how much help Jerry needs; they can't really understand how he will be able to do the work.

#### Jerry's Parents' Concerns at the Time of the IEP Meeting

1. Sue and Bob have been with Jerry almost all his waking hours since the accident. They are very concerned about sending him to school, where staff won't really understand what he has gone through.

2. They are concerned about Jerry's safety moving about the school building. His walking is still unsteady and he tires easily.

3. Bob and Sue also are concerned about Jerry's behavior. They know he is impulsive, he sometimes shows poor judgment, and he gets frustrated easily, yet Sue and Bob are reluctant to point out these limitations. They are hoping that the familiarity of the school environment and being back with his peers will help Jerry get back to normal.

4. Jerry's parents want him to have intensive therapies at school. They are hoping he can have OT and PT twice each day, as he did in the hospital.

5. Sue and Bob don't know how Jerry will keep up with his schoolwork. Sue has tried to work with Jerry on some math and reading the teacher sent home, but Jerry got frustrated and angry.

## Information Gathering Worksheets

Student:	Grade:	Date of Injury:
School:	Current Date:	

## I. Traumatic brain injury information

What do you know?	What if any additional information do you need for eligibility and program planning?

#### **II.** Pre-injury functioning

In the injury functioning	
What do you know?	What if any additional information do you need for eligibility and program planning?

### **III.** Current Areas of Functioning to Examine

**A.** Cognition (e.g., memory, attention, reasoning, abstract thinking, judgment, etc.)

The Cognition (e.g., memory, attention, reasoning, abstract annung, jaugment, etc.)			
Current functioning	Student needs in this area. Is	How can needs be addressed	
	more information needed?	in the IEP?	

Current functioning	Student needs in this area. Is	How can needs be addressed
	more information needed?	in the IEP?

### **B. Speech and Language/Communication**

## C. Sensory and Perceptual Abilities

Current functioning	Student needs in this area. Is	How can needs be addressed
	more information needed?	in the IEP?

#### **D.** Motor Abilities

D. Motor Montees		
Current functioning	Student needs in this area. Is more information needed?	How can needs be addressed in the IEP?

Module IV: Planning to Meet the Needs of Students with TBI

#### E. Psychosocial Skills

Current functioning	Student needs in this area. Is more information needed?	How can needs be addressed in the IEP?

## F. Physical/Health/Safety (e.g., medical/physical needs, self-care abilities)

,	
	How can needs be addressed
more information needed?	in the IEP?
	Student needs in this area. Is more information needed?

#### G. Academic skills

Current functioning	Student needs in this area. Is more information needed?	How can needs be addressed in the IEP?

**Note to the person reviewing the Discharge Summary:** This represents a summary of the rehabilitation center's most recent assessment of Jerry.

#### ANDERSON REHABILITATION CENTER

Medical Records Department Central City, Wisconsin

#### **DISCHARGE SUMMARY**

Patient: Jerry Admitted: 1-25 Discharged: 3-10

DISCHARGE DIAGNOSIS: Status post severe head trauma with intensive rehabilitation.

**HISTORY AND PHYSICAL EXAMINATION**: Jerry is an 11 year old white male admitted to Midwest Medical Center following a pedestrian/motor vehicle accident on 1-10. He was sledding on an incline near his home and failed to stop at the end of the driveway. He was transferred by air ambulance to Midwest Medical Center where he had a Glasgow Coma Scale score of 8. He remained in a comatose state approximately 11 days. An MRI performed on day 6 revealed midbrain and right frontal and temporal contusions. An EEG, also on day 6, revealed a general disturbance with a focal disturbance of the left hemisphere. Jerry was transferred to Anderson Rehabilitation Center on 1-25 for intensive rehabilitation.

On admission to the rehabilitation unit the patient was found to be alert but restless during examination. He was afebrile with a pulse of 90, respirations 20 and blood pressure of 118/70. Weight was 54.4 kilograms. There was a scar from the intracranial pressure monitor. This appeared well healed with no evidence of infection. Pupils were equal, round, and reactive to light. The neurological exam was remarkable for no vocalizations other than cries. He did follow simple commands. Sensation appeared to be grossly intact and motor strength was markedly decreased especially in the left upper extremity. There was minimal fine motor control of the fingers and the patient could ambulate with assistance only. He was unable to balance himself with one foot.

The patient was admitted to 2North pediatrics to begin intensive rehabilitation.

**REHABILITATION COURSE**: <u>Physical Therapy evaluation</u> on 1/26 revealed that Jerry had an ataxic gait and very poor balance and equilibrium while attempting to stand. He appeared capable of following simple requests but could not vocalize any wishes. He had full range of motion and muscle strength, which was judged to be good to normal. His sensation appeared to be grossly intact. Initial goals were to improve his gait and ability to ambulate including stair climbing, to improve gross motor skills, and to improve his strength and endurance. Dr. Smith of <u>pediatric neurology</u> evaluated Jerry on 1/27. It was his impression that Jerry had significant language deficit, primarily expressive, but without significant motor deficit.

<u>Speech pathology evaluation</u> was conducted on 1/28. It was their impression that Jerry was exhibiting substantial receptive and expressive language deficit, secondary to his head trauma. They recommended beginning a therapy program to increase his receptive and expressive vocabulary, conversational skills, attention skills, and to continue to monitor his progress with language testing.

The patient was also evaluated by Dr. Jones of <u>ENT</u> to rule out any vocal cord pathology. On evaluation Dr. Jones felt that the patient was able to phonate well with a clear voice. Evaluation of the glottis with a mirror was attempted but adequate examination could not be completed secondary to poor patient cooperation. It was decided that given the patient's ability to phonate well there would be no reason to pursue further evaluation of the patient's glottis.

Initial <u>neuropsychology</u> evaluation was completed on 2/1. Jerry's cognitive function was outside the normal limits with a verbal IQ of 64, performance IQ of less than 45, and a Full Scale IQ of 50 on the WISC-III. Academic functioning, an assessment of previously learned skills, showed reading decoding skills at the 4<sup>th</sup> grade level, spelling at the 2<sup>nd</sup> grade level, and math calculation at the 1<sup>st</sup> grade level. A measure of reading comprehension showed performance at the 2.4 grade equivalent. All of these scores stood in significant contrast to a learning disabilities evaluation completed in March last year. At that time the IEP team reported a WISC-III Verbal IQ of 115, a Performance IQ of 112, and a Full Scale IQ of 115. His academic skills were in the average range. He was reported to be impulsive, distractible and off task frequently with some social adjustment difficulties.

Jerry was followed by the brain injury service with continued treatment by occupational therapy, physical therapy, and speech pathology. Over the course of his hospitalization his affect improved and he was much less emotionally labile. By mid-February his language skills had improved markedly, although he still exhibited some difficulty with word finding. His motor skills also improved, although he continued to exhibit poor judgment and some left-sided neglect.

## **PRE-DISCHARGE EVALUATION**

Dr. Anderson of <u>ophthalmology</u> evaluated Jerry and found him to have normal vision with no evidence of field deficits.

Evaluation by Dr. Nelson of <u>pediatric neurology</u> and evaluations by <u>physical and occupation</u> <u>therapies</u> identified some mild left-sided weakness both in upper and lower extremities. Patient continues to evidence left side neglect. Patient ambulates without assistance, but must be monitored for safety due to neglect, limited endurance, and poor judgment.

<u>Speech pathology</u> evaluation found Jerry to have significantly improved speech since admission. Receptive skills appear adequate. Patient is able to follow commands. Expressive skills fall in the below average range; patient continues to have difficulty with word finding which was evident on assessment. Patient also exhibited frustration during assessment.

Neuropsychology again evaluated Jerry in early March in anticipation of his discharge. His WISC-III scores included a Verbal IQ of 88, a Performance IQ of 71, and a Full Scale Q of 75. Scores reflected improvement in Jerry's overall level of awareness, but scores remained disparate from scores obtained at school. Academically, Jerry's performance also has improved, with reading decoding at the 5<sup>th</sup> grade level, reading comprehension at the mid 3<sup>rd</sup> grade level, math computation at the 3<sup>rd</sup> grade level, and spelling at the 4<sup>th</sup> grade level. These scores reflect significant improvement during admission. However, Jerry was judged to continue to demonstrate marked difficulty on almost every aspect of neuropsychological assessment. He was disinhibited and easily distracted, showing perseveration on tasks. Initiation of activities and sustained attention required prompts, even in one-on-one testing. Previously learned material, as shown on academic testing, is relatively well preserved. When confronted with tasks requiring new acquisition, he showed significant impairment.

**DISPOSITION**: As noted above, Jerry is an 11-year-old boy who is 60 days status post closed head trauma with an 11 day loss of consciousness. Although he has demonstrated substantial improvement following intensive multi-disciplinary rehabilitation, he continues to demonstrate substantial cognitive deficits, with milder language and motor deficits. Although previously learned material appears to be well preserved, acquisition of new skills and tasks will be especially difficult for him. A referral for special education evaluation has been made to the patient's school. In addition, poor judgment, as manifested by his inability to recognize dangerous situations will require him to be under close supervision or in a protective environment. Patient will need on-going occupation, physical, and speech therapy.

Follow-up in two weeks with pediatrics and neuropsychology.

Karl P. Upham, M.D. Resident 3/5 Note to the person reviewing the speech/language report: This represents a summary of the speech and language findings and treatment to date.

#### ANDERSON REHABILITATION CENTER

Medical Records Department Central City, Wisconsin

#### SPEECH/LANGUAGE REPORT

Patient: Jerry Admitted: 1-25 Discharged: 3-10

#### HISTORY

Jerry is an 11 year old boy admitted to Anderson Rehabilitation Center on 1/25 following a sledding accident. Jerry sustained a brain injury in the accident. MRI on day six after the accident revealed midbrain and right frontal and temporal contusions. EEG at that time revealed a general disturbance with a focal disturbance of the left hemisphere.

#### **REHABILITATION COURSE**

At the time of admission evaluation (1/28) Jerry followed simple commands but his only vocalizations were cries. A speech/language treatment plan was developed and implemented during twice daily therapy sessions. Jerry made significant progress during his admission.

#### **CURRENT FUNCTIONING**

Hearing: Jerry responds appropriately to conversational level speech.

**Oral Mechanism:** The patient's oral mechanism appeared adequate in structure and function for communication purposes.

**Voice:** The parameters of voice appear to be within normal limits. Jerry now exhibits a normal intonation pattern during conversational speech.

<u>Articulation</u>: Articulation was not formally assessed. It was noted that Jerry misarticulates the /s/ phoneme during conversational speech.

**Language:** The <u>Peabody Picture Vocabulary Test – Revised</u>, Form L, was administered. Jerry achieved a standard score of 96 and a precentile rank of 39.

The upper extension of the <u>Expressive One-Word Picture Vocabulary Test</u> was administered. Jerry achieved a language standard score of 78 and a percentile rank of 7.

On assessment Jerry appears to be functioning normally in the area of one-word receptive language. He shows greater difficulty with expressive language. Jerry exhibits confrontational naming difficulty and struggles with word-finding in conversational speech. His functional receptive and expressive language deteriorate in stimulating environments and when language demands are more complex.

**Cognition and Behavior:** Over the course of admission Jerry's behavior during therapy has improved, but he has remained impulsive, and he becomes frustrated easily. He has been most cooperative in therapy when materials have included games and sports activities; he has resisted school-like activities. Jerry continues to display decreased problem solving and reasoning.

#### **IMPRESSION**

Jerry continues to demonstrate language deficits secondary to his head injury. He has shown significant gains since his injury in receptive and expressive vocabulary, oral directions, and some problem solving. Continued progress is expected with appropriate intervention. However, long-term residual receptive and expressive language deficits are expected. His language involvement may become more evident over time as the language demands of the academic setting increase.

#### RECOMMENDATIONS

1. It is felt that language therapy is indicated to support his academic needs.

2. Continue emphasis on expressive language skills, problem solving, and higher level language processing tasks.

3. Jerry may benefit from the use of scripts in interpersonal situations.

4. Follow-up in four weeks.

Sue Jones, M.A., C.C.C.- SPL

**Note to the person reviewing the occupational therapy report:** This represents a summary of the occupational therapy findings and treatment to date.

#### ANDERSON REHABILITATION CENTER

Medical Records Department Central City, Wisconsin

#### **OCCUPATIONAL THERAPY REPORT**

Patient: Jerry Admitted: 1-25 Discharged: 3-10

#### HISTORY

Jerry is an 11 year old boy admitted to Anderson Rehabilitation Center on 1/25 following a sledding accident. Jerry sustained a brain injury in the accident. MRI on day six after the accident revealed midbrain and right frontal and temporal contusions. EEG at that time revealed a general disturbance with a focal disturbance of the left hemisphere.

#### **REHABILITATION COURSE**

At the time of admission evaluation (1/28) Jerry walked with an ataxic gait, had extremely limited endurance, and followed simple commands. His only vocalizations were cries. Jerry required assistance with all ADL's; his muscle tone, strength and coordination were poor. An occupational therapy treatment plan was developed and implemented during twice daily therapy sessions. Jerry made significant progress during his admission.

## **CURRENT FUNCTIONING**

#### **Upper Extremity Function:**

**Range of Motion:** Appears to be within normal limits in both upper extremities.

**<u>Muscle Tone:</u>** Muscle tone is normal on the right, low on the left.

<u>Muscle Strength and Coordination, and Sensation:</u> Muscle strength is functional, right 5, left 4. He shows some weakness in the left upper extremity. Grip strength: left 40# and right 52#. Jerry shows some problems with bilateral motor coordination, but this has improved. Overall, writing has improved; letters are smaller, more legible and evenly spaced. Upper extremity sensation is intact to deep pressure. Further formal testing was not completed due to time limits.

**Cognition:** Jerry continues to be easily distracted and exhibits a short attention span. He was able to attend during the evaluation for approximately 30 seconds, however, he frequently looked around the room and needed to be redirected to task. He is oriented x 3 and readily verbalized

this upon entering the session. Perseveration is still noted to be a problem. During the evaluation a few inappropriate comments were made.

Jerry continues to have difficulty with math problems. His performance is more consistent on computer presentation of problems than paper presentation. He can count to 40 by 2's, but with some hesitation. He can recall 4 digits forward and 3 digits backwards. When given two words he was able to identify similarities and differences between the two. Higher level abstract reasoning skills and judgment continue to be a concern as these areas show significant impairment.

**Visual/Perceptual:** This area was tested briefly. Jerry shows impulsivity during testing. He continues to show some figure/ground deficits. Jerry was able to more readily imitate symmetrical and assymetrical postures. He continues to experience some left side neglect, but responds well to cueing.

<u>Activities of Daily Living</u>: Jerry is independent in feeding, hygiene and grooming. However, he needs reminders to brush his teeth and he resists showering. He is independent in toileting. He continues to have difficulty cutting his food, due to poor bilateral motor coordination. He also often pushes food off the left side of his plate. Jerry needs cueing and supervision to complete tasks, such as dressing, due to distractibility. He needs assistance tying his shoes (high tops) and fastening small buttons.

Equipment: None.

#### **IMPRESSIONS**

Although Jerry appears to have made great improvements since his head injury in the areas of fine motor development and activities of daily living, he needs continued therapy to increase his bilateral coordination, strength, and independence. Also, he will need services to address his social/emotional/cognitive needs.

**PLAN**: Follow-up in four weeks.

Pat Smith, M.S. OTR

**Note to the person reviewing the physical therapy report:** This represents a summary of the physical therapy findings and treatment to date.

#### ANDERSON REHABILITATION CENTER

Medical Records Department Central City, Wisconsin

#### PHYSICAL THERAPY REPORT

Patient: Jerry Admitted: 1-25 Discharged: 3-10

#### HISTORY

Jerry is an 11 year-old boy admitted to Anderson Rehabilitation Center on 1/25 following a sledding accident. Jerry sustained a brain injury in the accident. MRI on day six after the accident revealed midbrain and right frontal and temporal contusions. EEG at that time revealed a general disturbance with a focal disturbance of the left hemisphere.

#### **REHABILITATION COURSE**

Upon admission Jerry had severe balance and coordination problems, as well at attentional difficulties. He required constant verbal cueing to complete repetitive tasks and had difficulty with balance during these tasks. Jerry's gross motor skills have improved significantly since admission.

#### **CURRENT FUNCTIONING**

**<u>Range of Motion:</u>** Range of motion is well within normal limits excluding slightly tight hamstrings on bilateral legs- approximately 75 degrees straight leg raise.

<u>Muscle Tone and Reflexes:</u> Jerry shows normal to good plus strength in his right lower extremity with slight weakness in his left lower extremity. He does not appear to be dominated by any primitive reflexes at this time. His muscle tone appears to be slightly below normal compared to his peers.

**Gross Motor Skills:** Jerry was seen in physical therapy to work on balance, coordination, motor planning activities, and visual-spatial perceptual activities. While in therapy Jerry also began a general fitness program, including jumping jacks, push-ups, and sit-ups. Balance activities were addressed by standing on one foot, walking on a balance beam, standing on a scooterboard and being moved through space, and also working from the 4-point position with arm and leg lifts. In 4-point position Jerry is able to maintain reciprocal arm-leg balance for approximately 30 seconds. His strength remains his greatest problem and he fatigues easily. Coordination was addressed through jumping, running, obstacle course, and moving obstacle course activities. Jerry was also seen in therapy to work on perceptual skills while doing the obstacle course

activities and moving through various trails staying on the trails. He continues to neglect obstacles on the left side occasionally.

Jerry has improved in stair safety. Initially, he was apprehensive going down stairs; he appeared to have decreased depth perception. However, at this time he can ambulate safely up and down stairs that are the same color background and without a rail in an alternating pattern.

Heel-to-toe walking has improved. Jerry walks with a reciprocal gait pattern, however, at times, it appears slightly awkward. His mother noticed some changes in his gait pattern, but it has improved steadily with therapy. He now demonstrates a reciprocal arm swing when he is ambulating. However, his stride length does appear slightly long compared to normal.

**Behavior:** Jerry's behavior during therapy is generally good. He has been very cooperative throughout his course of therapy and only on occasion becomes non-compliant with therapist's requests. With limit setting he is able to complete a task without difficulty.

#### RECOMMENDATIONS

I recommend that Jerry continue physical therapy at school to meet his educational needs.

Cindy Smith, PT

#### **IEP INFORMATION: Jerry**

## PRESENT LEVEL OF ACADEMIC ACHIEVEMENT and FUNCTIONAL PERFORMANCE

#### Describe the student's strengths and concerns of the parents about the student's education.

Jerry has made steady improvement since his accident and now remembers most previously learned material. He is physically independent in feeding, toileting, hygiene and grooming with cueing and supervision. Jerry's speech has improved significantly since his injury. He is able to follow simple 1-step requests and answer a direct question on a surface level. Motorically, he is now able to maneuver up and down steps independently. Jerry wants to please his parents and teachers. He works well when he understands what is expected of him. Jerry likes the other students and wants to play with them. Jerry's parents are concerned about the knowledge level of staff in regard to brain injuries. They are worried about Jerry's increased levels of fatigue, safety in the school building and behavioral issues such as increased frustration, impulsiveness and poor judgment.

Will the student be involved full-time in the general education curriculum or, for preschoolers, in age-appropriate activities? Yes No x If no, explain the extent to which the student will not be involved full-time in the general curriculum or, for preschoolers, in age-appropriate activities.

The student will participate in an alternate or replacement curriculum that is aligned with alternate achievement standards in Reading, Math, Language Arts, Science, Social Studies, and other.

At this time Jerry exhibits impaired cognitive, academic, language and motor difficulties, which require direct intervention from the special education teacher, speech, occupational and physical therapists. Jerry will begin school on a modified half-day schedule to include a late starting time and early dismissal. Jerry will participate in the general fifth grade curriculum in spelling, social studies, science, art, and music. He will participate in a modified curriculum in reading, math, and physical education.

**Present level of academic achievement and functional performance including how the student's disability affects the student's involvement and progress in the general education curriculum. For preschool children, describe how the disability affects involvement in age-appropriate activities.** (*Note: Present level of performance must include information that corresponds with each annual goal.*)

#### Sample academic achievement and functional performance content related to sample goal:

• Few friends prior to injury

September, 2007

- Has been visited on 3 occasions by peers since his release from the hospital; inappropriate touching and verbalizations (*note: need to define, give examples*) occurred all 3 times
- Decreased bilateral coordination, balance, strength and independence (*this will impact what games he chooses and can do*)
- Receptive and expressive language deteriorate in stimulating and unstructured settings (*recess is one of those!*)
- Requires close supervision because of distractibility

**Sample Goal:** Jerry will interact socially on the playground with peers 9 of 10 opportunities.

Objectives:

- Given teacher and PT input, Jerry will make a list of at least 5 games or playground activities in which he is willing to participate with another student(s) by November 1.
- Given his list and adult cues and supervision, Jerry will choose a game/activity and play it appropriately (e.g., following the rules, taking turns, complimenting peers on their performance, without adult correction/intervention)

-with one other student for a 10 minute recess period 4 of 5 opportunities by the end of January. -with 2 other students for a 15 minute recess period 4 of 5 opportunities by the end of March.

- Given his list and social skills instruction, Jerry will independently (e.g., no adult cues or intervention) choose a game/activity, ask 2-3 peers to play it with him, and appropriately (see obj. 2 for definition) play it for the entire recess period 9 of 10 opportunities.
- Given social skills instruction and opportunities to role play, Jerry will appropriately engage a peer in conversation about a topic, such as a school-related topic, a favorite TV show, etc., using an "inside" voice and appropriate language (defined as no swearing or sexual remarks) while waiting in line to enter the building first thing in the morning, at recess, or at lunch hour 9 of 10 opportunities.

#### Jerry's Problems in School

**SOCIAL STUDIES**: Jerry's school is organized into "houses" with movable walls. Each student has a "core" teacher who teaches math, language arts, and science. The students have other teachers in the "house" for social studies, music, art and gym. Mr. Hanson is Jerry's social studies teacher. He is concerned about Jerry's participation in class activities. Much of his 5<sup>th</sup> grade social studies curriculum is built around projects the students work on independently for 6 weeks. Mr. Hanson gives the students some time in class to work on the projects, but the students are expected to devote evening and week-end time to their projects. Students are also expected to show independence in choosing their topics, carrying out their research, and deciding how to share what they have learned with the class.

Student projects about their most recent unit, the Civil War, included such things as models of Civil War battles, book reports, reproductions of Civil War clothing, and biographies of Civil War generals. Jerry's project included only a poster with some pictures he had copied from a book Mr. Hanson had given him. Mr. Hanson reminded him again and again of the project requirements. "He seemed to understand what he needed to do, but he just didn't get going! I helped him as much as I thought was fair to the other kids. I even sent a note home describing the requirements."

Now Mr. Hanson is concerned about Jerry's next project, on the industrial revolution. It is due in four weeks, and Jerry hasn't even picked a topic. Mr. Hanson says Jerry will never make it in middle school next year if he doesn't learn to work more independently.

NOTES

## Strategies for Working with Specific Problems of Students with TBI

I. Physical/Health/Safety			
<ul> <li>General Safety Issues</li> <li><i>Example: The student has good mobility but poor judgment; student leaves the school building during class time. The student is impulsive e.g, on playground equipment. The student is disinhibited with peers.</i></li> <li>Educate team members</li> <li>Be sure ALL team members (teachers, playground supervisors, bus drivers, etc.) are aware of the needs of the student for close supervision</li> <li>Consult with the student's parents to determine what supervision strategies work at home</li> <li>Be sure an adult is responsible for the safety of the student at all times</li> <li>Educate peers</li> <li>Inform peers of the safety needs of the student (this can often be done with the student present and participating in the discussion)</li> <li>Encourage peers to alert adults if the student is unsafe</li> <li>Modify the environment</li> <li>When necessary, curtail the student's access to activities/equipment that may be unsafe (such as playground climbing equipment)</li> <li>Consider procedures for fire drills, etc.</li> </ul>	Fatigue         Example: The student tires easily. The student falls asleep in classes.         Adjust schedule to include         • Core academic subjects at times of least fatigue         • Rest periods         • Fewer transitions         • Late arrival         • Early dismissal         • Part-time homebound instruction         • Adaptive physical education         Modify instruction         • Reduce physical components of tasks         • Reduce time on individual tasks         • Reduce completion requirements (e.g., 5 math problems instead of 10)         Check with team members to         • Ensure appropriate positioning         • Check on other class demands         • Identify pattern of fatigue         • Create consistent response to fatigue         • Be sure teachers are aware of safety issues         Check with home about         • Sleep schedule         • Medications         Instruct the student to         • Sit for a rest period         • Lay down for a rest period         • Have a beverage or snack         • Get exercise if it helps this student         • Inform teachers when tired		

I.	Physical/Health/Safety (continued)
<b>Ex</b> stu	ndurance cample: The student is physically weak. The edent can walk or use wheelchair only limited stances.
M	odify the <u>environment</u> Reduce physical distances between
	activities
•	Keep materials handy to avoid extra trips to locker
•	Give student two lockers in different areas
•	of school Adjust shelves of locker if student is in
	wheelchair
M	odify <u>schedule</u> to include
•	Adaptive physical education
•	Breaks between activities
•	Rest periods Late arrival
•	Early dismissal
•	
As	k <u>peers</u> to help
•	Assign student to help with physical tasks
Ch	neck with <u>team members</u> to
•	Assign adult to assist in transitions
•	Be sure adults are aware of safety issues
	with student Coordinate demands across classes
•	Coordinate demands across classes
In	struct the <u>student</u> to
•	Understand his/her limits
•	Stop activity when limit is reached
•	Report to teacher when tired

II. Vision/Visual Spatial			
<b>Visual Spatial Neglect</b> <i>Example:</i> The student ignores the left half of the page or bumps into objects on the left side.	<b>Visual Field Cuts</b> <i>Example:</i> The student doesn't see well in a certain area(s) of the visual field (such as the upper right area of vision).		
<ul> <li>Adapt <u>materials</u> to include</li> <li>Highlighted margins in areas of neglect</li> <li>Yellow acetate paper over print to improve contrast</li> <li>Dark lined paper</li> <li>Cut-outs to lay over reading passages so student can follow along with finger</li> <li>Cues, such as a star or number at the left end of each reading line</li> <li>Modify instruction</li> </ul>	<ul> <li>Adapt <u>environment</u></li> <li>Position materials for best visibility</li> <li>Position student in classroom for best visibility</li> <li>Adapt <u>materials</u> to include</li> <li>Cut-outs to lay over reading passages so student can follow along with finger</li> <li>Cues such as highlighted margins in area(s) of field cuts</li> </ul>		
<ul> <li>Ask student to read while listening to books on tape to train to attend to neglected side</li> <li>Use books on tape to provide content when reading is significantly impaired</li> <li>Use concrete objects or oral instruction</li> </ul> Adapt the <u>environment</u> <ul> <li>Provide preferential seating near the teacher who can provide cues</li> </ul>	<ul> <li>Modify <u>instruction</u></li> <li>Give student written copies of overhead and blackboard materials</li> <li>Create/use materials that are not "crowded"</li> <li>Use concrete objects when possible</li> <li>Include cues to move materials into intact visual fields</li> <li>Audio-record materials</li> </ul>		
• Position student with left neglect toward the left of the room	<ul> <li>Instruct the student to</li> <li>Adjust the placement of materials to see all of them</li> </ul>		
<ul> <li>Instruct student to</li> <li>Adjust placement of materials for best visibility</li> <li>Respond to cues to move head to see neglected side</li> <li>Use vision aids, such as cut-outs and overlays</li> <li>Monitor comprehension to aid awareness</li> </ul>	<ul> <li>Respond to cues to position materials</li> <li>Recognize and signal when (s)he has difficulty seeing</li> <li>Use vision aids (such as reading cut-outs)</li> <li>Monitor comprehension to aid awareness of field cut (if it doesn't make sense, maybe I skipped some words)</li> </ul>		
<ul> <li>of neglect (if it doesn't make sense, maybe I skipped some words)</li> <li><u>Other</u></li> <li>Teach peers to cue student to attend to neglected side</li> <li>Maintain predictable classroom organization</li> <li>Inform all teachers of visual needs</li> </ul>	<ul> <li>Other</li> <li>Inform all teachers of student's visual needs</li> <li>Ensure appropriate supervision</li> </ul>		

II. Vision (continued)	
Visual Tracking	
<b>Example</b> : The student loses place while	
reading or can't follow the movement of a ball.	
Adapt <u>materials</u> to include	
• Cut-outs to lay over reading passages to	
limit what the student sees at one time	
• Reduced amount of content on each page	
• Dark lined paper	
Color	
Enlarged print	
Raised-line paper	
Modify <u>instruction</u>	
Audio-record materials	
Provide adaptive physical education	
• Use concrete objects when possible	
<ul> <li>Modify <u>environment</u></li> <li>Give student preferential seating</li> <li>Remove student from situations in which vision reduces safety (e.g., some recess activities)</li> <li>Provide adequate supervision</li> </ul>	
Check with <u>team members</u> to	
• Be sure all teachers are aware of visual	
difficulties	
Ask <u>peers</u> to	
<ul> <li>Be aware of the student's visual limitations</li> </ul>	
• Monitor own physical activities when near	
the student	
Instruct <u>student</u> to	
<ul> <li>Use visual aids such as cut-outs</li> <li>Use strategies such as moving a finger</li> </ul>	
• Use strategies such as moving a finger	
<ul><li>along a line of print</li><li>Inform teachers when having trouble</li></ul>	
seeing	

III. Hearing		
<ul> <li>Example: The student has reduced hearing acuity in some frequencies; has difficulty hearing in the presence of background noise; becomes agitated in noisy environments; is highly sensitive to certain noises (such as fire alarms or bells); seems to selectively hear (hears some things well, but doesn't hear other things); relies on lip reading; uses an interpreter.</li> <li>Modify instruction <ul> <li>Decrease background noise</li> <li>Provide instructions in writing (on the board or handouts)</li> <li>Talk while facing the student</li> <li>Provide preferential seating</li> <li>Be sure you have the student's attention before speaking</li> <li>Consider altering the student's schedule to reduce overly stimulating situations (e.g., assemblies)</li> </ul> </li> <li>Adapt materials to include <ul> <li>Written class notes</li> <li>Textbooks or other written reference materials</li> <li>Videotapes with captions</li> </ul> </li> <li>Instruct the student to <ul> <li>Signal when (s)he cannot hear or understand</li> <li>Repeat back messages to ensure accuracy</li> <li>Use headphones in unavoidable noisy situations</li> </ul> </li> </ul>	<ul> <li>Other</li> <li>Be sure student has had recent audiological evaluation</li> <li>Work with the interpreter to identify the optimal placement for interpreter, student, and teacher</li> <li>Have the class sit in a circle or semi-circle when possible so the student can see their faces</li> <li>Be sure the student has been properly evaluated for assistive technology, including hearing aids, FM system</li> </ul>	

For additional information related to memory, please refer to the Memory Training Module developed through the Wisconsin TBI discretionary grant at <u>www.cesa11.k12.wi.us</u>.

#### V. Orientation and Attention Orientation Attention **Example:** The student is confused, seems to be Example: The student does not get started on in a fog, isn't always aware of time or place or class work or attends only briefly. other people. Educate team members to Be sure task level is appropriate. Be sure Educate team members to • Be sure all staff members are aware of the student can do what is being asked student's injury and need for supervision Assess the length of time the student can • • Provide education about TBI and attend under optimal circumstances. How orientation difficulties the student might long can (s)he attend to desired activities (e.g., videos, friends, music, television)? experience Identify factors that facilitate/interfere with • Remember that the student likely has • difficulty with memory, attention, the student's attention (e.g., fatigue, hunger, noise) reasoning • Use appropriate behavior management Be sure student understands instructions. strategies, such as redirection Have student repeat instructions, write them down, indicate what to do using Adapt the environment to picture cues. • Reduce distractions to prevent Attend to and reward on-task behavior • overstimulation • Label belongings, tasks, areas Adapt instruction to • Match the student's abilities to attend. Plan • Use name tags for staff activities that don't exceed the student's • Create routines and consistency attention span. Break tasks into parts with breaks Adapt instruction to ٠ Have the student with very brief (e.g., 15-• Shorten instructional periods or school day ٠ 30 sec.) attention work with teacher/aide as needed • Match the student's interests • Take advantage of the times when he student is most alert Modify the environment • Provide picture or written schedules • Reduce factors that interfere with the Provide frequent breaks • student's attention (e.g., noise, light) Include brief, focused instruction on • Provide preferential seating in the meaningful tasks that the student classroom understands Use concrete reinforcers Instruct the student to Use a timer to focus attention for a specific • Teach peers to period of time Be aware of student's needs Monitor attention to task • Seek adult assistance if the student is ٠ • Complete a pre-determined amount of unsafe work and then take a break

VI. Rea	asoning
<ul> <li>Problem Solving</li> <li>Example: The student gets into fights on the playground because (s)he takes the soccer ball. The student gets frustrated because (s)he can't figure out how to open the glue stick. The student can't figure out how to correct math problems.</li> <li>Adapt the environment to <ul> <li>Reduce unnecessary frustrations or problems</li> <li>Be sure there are enough materials for everyone (e.g., provide another soccer ball)</li> <li>Be sure the materials are accessible (e.g., loosen the top of the glue stick)</li> <li>Provide adequate supervision so the student can receive assistance when needed</li> <li>Provide visual cues (e.g., the round circle around the tetherball pole marks the tetherball area; the red carpet square is where the student sits; the blocks can be used on the green tile)</li> </ul> </li> <li>Instruct team members to <ul> <li>Be aware of the student (e.g., point to the red carpet square)</li> <li>Help the student use a problem solving approach (e.g., identify the problem, identify solutions, generate pros and cons of solutions, pick a solution, implement it)</li> </ul> </li> <li>Modify instruction to <ul> <li>Be sure instructions and expectations are clear and realistic</li> <li>Include focus on alternative and consequence generation</li> <li>Include samples for the student to consult</li> <li>Explain the format/structure of the task</li> </ul> </li> </ul>	<ul> <li>Teach peers to</li> <li>Be aware of the needs and strengths of the student</li> <li>View the student and themselves as part of a community</li> <li>Use a problem solving approach (teach all students in the school)</li> <li>Seek adult assistance when having difficulty with the student</li> <li>Teach the student to</li> <li>Use a problem solving approach (e.g., identify the problem, identify solutions, generate pros and cons of solutions, pick a solution, implement it)</li> <li>Respond to cues to interrupt behavior, stop and think, or implement a problem solving approach</li> <li>Be aware of environmental cues (e.g., (e.g., the round circle around the tetherball pole marks the tetherball area; the red carpet square is where the student sits; the blocks can be used on the green tile)</li> <li>Seek adult assistance when necessary</li> <li>Check with home about</li> <li>What strategies work at home</li> <li>Using a consistent problem solving approach across settings</li> </ul>

## VI. Reasoning (continued)

#### Sequencing

**Example:** The student ruins a ceramics project by glazing before the piece is dry. The student has difficulty solving algebraic equations because (s)he does the operations out of sequence.

#### Modify instruction to

- Limit the number of steps in a task
- Present the first step, then the second etc.
- Use backward buildup; have the student practice the last step, then the second-to last and last steps, etc. For example, have the student walk the last few steps into the classroom alone in the morning. Gradually build up the distance until the student is safe walking into school alone from the bus
- Provide picture or written cues for each step of a sequence
- Tell the student how many steps are required; e.g., "You need to do three things."
- Provide samples which show each step required in a sequence

#### Adapt <u>materials</u> to

- Provide only one or two steps of a sequence on a page
- Color code different steps
- Highlight when a new step is required

#### Teach the student to

- Refer to written or picture cues
- Look at models provided or refer to directions
- Use problem solving to figure out what to do next
- Use self-instruction (What am I supposed to do? What is my plan? Am I using my plan? Good job!)

## Generalization

**Example:** The student can show skills in one setting, but not another; e.g., the student can solve addition problems on a work sheet but not in the kitchen.

#### Modify instruction to

- Practice new skills across settings, across individuals, with varied materials
- Stress similarities and differences
- Use examples that are meaningful to the student

#### Instruct team members to

- Identify common goals across classes or activities
- Provide opportunities for practice of skills in situations in which they are used
- Model skills across different tasks

#### Adapt materials to

- Have varied structure/format/expectations for application of a skill (e.g., do addition on flashcards, worksheets, objects to help consolidate skills)
- Have similar structure/format/expectations across tasks (e.g., use a familiar reading format for story mapping in social studies to help the student apply reading comprehension skills in social studies)
- Use codes (e.g., color, format) that indicate similar procedures across tasks or settings (e.g., a house sticker on the top of the page means take this worksheet home to show your parents)

## Instruct the student to

- Focus on similarities and differences of settings, people, expectations, rules
- Role play skills in new situations
- Set goals for using skills across settings

VII. Executive Functions			
<b>Planning and Organization</b> <i>Example:</i> The student has difficulty setting goals and following through to completion. The student loses materials.	<b>Self-Management</b> <i>Example:</i> The student relies on external prompts and cues to initiate and complete activities.		
<ul> <li>Instruct team members to</li> <li>Be sure all team members are aware of the student's brain injury and difficulties with executive functions.</li> <li>Be sure team members understand the difference between difficulties caused by brain injury and those caused by intentional misbehavior or disinterest</li> <li>Assess the student's capabilities and provide appropriate levels of support to ensure the student's success</li> <li>Communicate regularly with parents about assignments, projects</li> <li>Reinforce completion of small steps</li> <li>Adapt instruction to</li> <li>Structure assignments and projects so the student can define discrete steps and accomplish them one at a time</li> <li>Use strategies, such as story mapping, that link details with the main idea</li> <li>Include regular check-ins with the teacher</li> </ul>	<ul> <li>Instruct <u>team members</u> to</li> <li>Set appropriate expectation for self- management; don't eliminate assistance the student needs</li> <li>Identify self-management strategies the student can use, such as setting goals, rating task completion, graphing performance, evaluating performance, using self-reinforcement</li> <li>Use similar strategies across classes to help the student become more independent</li> <li>Gradually reduce prompts/cues as the student shows increased independence</li> <li>Adapt <u>instruction</u> to</li> <li>Include clear expectations and goals for the student</li> <li>Include small group activities in which group members use self-management strategies</li> <li>Set classwide expectations for self- management</li> </ul>		
<ul> <li>Teach the student to</li> <li>Keep materials in specific spaces</li> <li>Organize materials each day</li> <li>Use an assignment notebook</li> <li>Use checklists and timelines</li> <li>Develop routines, such as checking for homework materials each day before leaving school</li> <li>Plan and carry out activities that are meaningful to the student, such as plan an outing to a school athletic function (with parent approval/support)</li> </ul>	<ul> <li>Teach peers to</li> <li>Model self-management in individual and group activities</li> <li>Teach the student to</li> <li>Use self-management strategies such as setting goals, rating task completion, graphing performance, evaluating performance, using self-reinforcement</li> <li>Use aids such as kitchen timer or watch</li> <li>Use concrete strategies, such as reading directions, numbering tasks, highlighting important information</li> </ul>		

## VIII. Language

## Receptive

**Example:** The student has difficulty understanding directions; the student's processing of language is slowed; the student misunderstands slang or idioms (e.g. the hot pink paper).

#### Adapt instruction to

- Give smaller segments of information at a time
- Allow the student ample time to process information before moving on
- Emphasize and repeat key points
- Use picture or written word cues
- Provide work samples that illustrate requirements
- Pair signs, gestures, or pictures with verbal information
- Model what you expect the student to do
- Include advance organizers and summaries of important information

## Adapt the <u>environment</u> to

- Reduce distractions (noise, activity) when giving information to the student
- Create a quite corner to work individually with the student and/or a small group
- Position the student in the classroom in locations where (s)he can see the board, hear the teacher, observe peer modeling

## Teach the <u>student</u> to

- Use appropriate assistive devices
- Monitor comprehension
- Use cognitive or story mapping, graphs, charts to clarify information
- Ask questions or give a signal when (s)he doesn't understand
- Learn by watching peers, examining work samples, using picture/written instructions

## Expressive

**Example:** The student has difficulty with word finding; the student seems to lose track of what (s)he is saying; the student

### Adapt instruction to

- Provide cues or prompts to help the student (e.g., ask the student choice questions, such as "Is this a square or a triangle?"
- Give the student questions/answers to rehearse before class discussion
- Develop brief scripts the student can use in some class activities (e.g., literature circles)

#### Adapt the <u>environment</u> to

• Include language cues; e.g., put the common vocabulary found in a new unit on the blackboard or tape it into the student's notebook

### Teach peers to

- Understand the communication needs of the student
- Use brief communication scripts with the student
- Give the student extra time to respond

#### Teach the student to

- Use appropriate assistive devices
- Use gestures or signs
- Talk around the topic (circumlocute) to help find a word (describe it, what is its opposite, what color is it, where is it)
- Try to draw or write a word (s)he cannot find
- Use brief communication scripts to help him/her communicate in specific situations (e.g., greeting a friend, asking to join a game)
- Rehearse questions/responses in advance

IX. Academic Skills	5
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<ul> <li>Reading Example: The student has difficulty with decoding and comprehension; the student becomes frustrated and refuses to read </li> <li>Adapt instruction to <ul> <li>Read materials aloud</li> <li>Provide tape-recording of student's reading material</li> <li>Provide reading materials of interest to the student</li> </ul> </li> </ul>	Math         Example: The student has difficulty following columns of numbers; the student neglects signs; the student can perform operations on a worksheet but not on applied word problems or in daily functioning.         Adapt instruction to         • Use lined paper         • Include fewer problems per page         • Highlight operations signs		
<ul> <li>Include daily practice of reading</li> <li>Include direct instruction of reading</li> <li>Include functional sight words as you continue to teach decoding</li> <li>Teach new vocabulary</li> <li>Use small groups (e.g., literature circles)</li> <li>Scan materials into a computer with voice output</li> </ul>	<ul> <li>Use large font</li> <li>Use cut outs to focus student's attention</li> <li>Include varied instructional formats for one skill to facilitate generalization</li> <li>Use examples that are meaningful to the student</li> <li>Highlight directions; review them with the student</li> </ul>		
<ul> <li>Adapt materials to include</li> <li>Fewer items per page and large font size</li> <li>Lined paper</li> <li>Contrast between background and print</li> <li>Highlighting of important information</li> </ul> Teach student to <ul> <li>Follow text with finger, ruler, or pointer</li> </ul>	<ul> <li>Assess student's skills; be sure student curriculum matches student needs</li> <li>Be sure student can complete work successfully before letting student work independently; avoid practice of errors</li> <li>Provide frequent feedback and review</li> <li>Be sure instruction contains mostly (e.g., 75-80%) familiar material; introduce new content slowly</li> </ul>		
<ul> <li>Use comprehension strategies, such as previewing, questioning, predicting, reviewing, summarizing and monitoring</li> <li>Fulfill a role in group reading activities</li> <li>Use story mapping</li> <li>Check with student's <u>home</u> to</li> <li>Ensure that visual skills have been evaluated (e.g., acuity, visual fields)</li> <li>Develop a plan for reading practice</li> <li>Ensure that consistent strategies are used</li> </ul>	<ul> <li>Teach the <u>student</u> to</li> <li>Attend to highlighted material</li> <li>Read directions</li> <li>Complete a few problems and then check to be sure they are correct</li> <li>Follow models/samples/examples</li> <li>See similarities in operations across varied formats (e.g., story problems, math facts, real life problems)</li> <li>Work with a buddy</li> <li>Use a calculator/other assistive devices</li> </ul>		

X. Social-Emotional	
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<ul> <li>Social Example: The student plays alone at recess, is too dependent on adults. The student alienates peers by monopolizing the conversation, being too loud and rough, or bossy. </li> <li>Adapt <u>instruction</u> to <ul> <li>Include direct teaching of social skills</li> <li>Include modeling of social skills</li> <li>Include role plays of specific difficult</li> </ul> </li> </ul>	<ul> <li>Emotional</li> <li>Example: The student is depressed or angry due to awareness of limitations. The student laughs and cries at inappropriate times or becomes easily frustrated or argumentative.</li> <li>Adapt <u>instruction</u> to</li> <li>Meet the abilities of the student. Be sure the student can experience success</li> <li>Have an appropriate balance between</li> </ul>		
<ul> <li>too dependent on adults. The student alienates peers by monopolizing the conversation, being too loud and rough, or bossy.</li> <li>Adapt <u>instruction</u> to</li> <li>Include direct teaching of social skills</li> <li>Include modeling of social skills</li> </ul>	<ul> <li>due to awareness of limitations. The student laughs and cries at inappropriate times or becomes easily frustrated or argumentative.</li> <li>Adapt <u>instruction</u> to</li> <li>Meet the abilities of the student. Be sure the student can experience success</li> </ul>		
<ul> <li>peers by monopolizing the conversation, being too loud and rough, or bossy.</li> <li>Adapt <u>instruction</u> to</li> <li>Include direct teaching of social skills</li> <li>Include modeling of social skills</li> </ul>	<ul> <li><i>laughs and cries at inappropriate times or becomes easily frustrated or argumentative.</i></li> <li>Adapt <u>instruction</u> to</li> <li>Meet the abilities of the student. Be sure the student can experience success</li> </ul>		
<ul> <li>too loud and rough, or bossy.</li> <li>Adapt <u>instruction</u> to</li> <li>Include direct teaching of social skills</li> <li>Include modeling of social skills</li> </ul>	<ul> <li><i>becomes easily frustrated or argumentative.</i></li> <li>Adapt <u>instruction</u> to</li> <li>Meet the abilities of the student. Be sure the student can experience success</li> </ul>		
<ul> <li>Adapt <u>instruction</u> to</li> <li>Include direct teaching of social skills</li> <li>Include modeling of social skills</li> </ul>	<ul> <li>Adapt <u>instruction</u> to</li> <li>Meet the abilities of the student. Be sure the student can experience success</li> </ul>		
<ul><li>Include direct teaching of social skills</li><li>Include modeling of social skills</li></ul>	• Meet the abilities of the student. Be sure the student can experience success		
<ul><li>Include direct teaching of social skills</li><li>Include modeling of social skills</li></ul>	• Meet the abilities of the student. Be sure the student can experience success		
• Include modeling of social skills	-		
-	• Have an appropriate balance between		
situations	familiar material (75-80%) and new		
• Provide opportunities for practice of social	content (20-25%)		
skills in small groups with coaching			
	Instruct <u>team members</u> to		
Adapt <u>environment</u> to	• Avoid confrontation when possible		
• Include supervision of the student to	• Prevent hassles when possible		
prevent altercations on the playground, in	• Recognize and understand emotions the		
the cafeteria	student may experience		
• Include structured, adult-supervised social			
activities at recess/lunch	Teach the <u>student</u> to		
	• Be aware of emotional consequences of		
Teach <u>peers</u> to	TBI		
• Understand the difficulties of the student	Verbalize feelings		
Consider all students in the small group or	• Identify appropriate outlets for feelings		
classroom or school part of a supportive	• Explain his/her areas of difficulty to others		
learning community	• Appreciate his/her strengths as well as		
• Model adults who show respect for all	needs		
students	• Identify goals; chart progress toward them		
	• Take breaks when frustrated		
Teach the <u>student</u> to	• Avoid situations known to provoke the		
• Pay attention to social cues (e.g., facial	student		
expressions, body positions, distance)	• Be aware of the signs of emotional		
• Ask for adult assistance when needed	escalation		
• Use social problem solving strategies			
(see section IV)	Provide <u>additional services</u>		
• Be aware of strengths and needs	• Provide individual or group		
• Consider the perspectives of others	counseling/psychological services at school		
• Use brief communication scripts in	<ul> <li>Refer the student/family to additional</li> </ul>		
some social situations	resources outside school, such as brain		
<ul> <li>Identify rules for varied settings</li> </ul>	injury support groups or private counselors		

#### **References for Strategies**

The following resources were used in developing the preceding list of strategies. The format was adapted from Corbett and Ross-Thomson (1996).

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Corbett, S.L., & Ross-Thomson, B. (1996). <u>Educating students with traumatic brain</u> <u>injuries: A resource and planning guide</u>. Madison, WI: Wisconsin Department of Public Instruction.

Munk, D.D., & Repp, A.C. (1994). An approach to functional assessment and analysis of disruptive behavior in regular education classrooms. <u>Exceptional Children, 60</u>, 390-401.

North Carolina Department of Public Instruction. (1997). <u>Best practices in assessment</u> and programming for students with traumatic brain injuries. Raleigh, NC; Author.

Savage, R.C., & Wolcott, G.F. (Eds.).(1994). Educational dimensions of acquired brain injury. Austin, TX: Pro-ed.

Savage, R.C., & Wolcott, G.F. (1995). <u>An educator's manual: What educators need to</u> <u>know about students with brain injury</u>. Washington, D.C.: Brain Injury Association, Inc

Virginia Department of Education. (1992). <u>Guidelines for educational services for</u> <u>students with traumatic brain injury</u>. Richmond, VA: author.

#### Accommodations & Modifications in the Elementary Classroom For a Student with Traumatic Brain Injury

Student: Presenting Concerns:	Teacher:	Grade:	Today's Date:
e	Data of Injumu		
Birth Date:	Date of Injury:		
Consider Students Environment	Consider Method of Instruction –	Consider Student's Behavioral	Consider Assistive Technology –
□ Post class rules (pictures & words)	(Continued)	Needs – (Continued)	(Continued)
□ Post daily schedule (pictures & words)	☐ Teacher circulate around room	□ Learn to organize signs of stress	□ Scanned text with OCR software
□ Give preferential seating	□ Provide visual prompts (board/desk)	$\Box$ Give non verbal cues to discontinue	□ Voice output reminders
$\Box$ Change to another class	□ Provide immediate feedback (self	behavior	□ Electronic organizers/reminders/pagers
$\Box$ Change schedule (most difficult in	correcting seat work)	$\Box$ Reinforce positive behavior (4:1)	$\Box$ Large display calculators
morning)	□ Point out similarities to previous	$\Box$ Use mild, consistent consequences	□ Voice input calculators
□ Eliminate distractions (visual,	learning/work	$\Box$ Set goals with student	$\Box$ Math software
auditory, olfactory)	□ Use manipulative materials	□ Use key students for reinforcement of	□ Picture/symbol supported software
□ Modify length of school day	□ Use frequent review of key concepts	target student	
□ Provide frequent breaks	$\Box$ Teach to current level of ability (use	□ Use group/individual counseling	Other Considerations
$\Box$ Provide place for quiet time	easier materials)	$\Box$ Teach student to attend to advance	Home/School Relations
☐ Maintain consistent schedule	□ Speak loud or slow or rephrase	organizers at beginning of lesson	□ Schedule regular meetings for all
$\Box$ Provide system for transition	□ Preteach/Reteach	□ Provide opportunity to role pay	staff to review progress/maintain
□ Position appropriately	□ Highlight/underline material	□ Use proactive behavior management	consistency
□ Explain disabilities to students	□ Use peer tutor/partner	strategies	□ Schedule parent conferences
$\Box$ Use color-coded materials	Use small group instruction	$\Box$ Use schoolwide reinforcement with	every
	$\Box$ Use simple sentences	target students	□ Daily/weekly reports home
Consider Curricular Content &	Use individualized instruction		□ Parent visits/contact
Expectations	□ Pause frequently	Consider Assistive Technology	$\Box$ Home visits
$\Box$ Reduce length of assignments	$\Box$ Discuss errors and how they were	□ Adaptive paper	
Change skill/task	made	□ Talking spell checker/dictionary	Disability Awareness
□ Modify testing mode/setting	Use cooperative learning	□ Concept mapping software/templates	Explain disabilities to other students
□ Allow extra time	Use instructional assistants	□ Magnetic words, letters, phrases	$\Box$ Teach peers how to be helpful
$\Box$ Teach study skills	□ Encourage requests for clarification,	☐ Multimedia software	□ In-service training for school staff
□ Teach sequencing skills	repetition, etc.	$\Box$ Keyguard for keyboard	
□ Teach visual imagery	Elicit responses when you know student knows the answer	□ Macros/shortcuts on computer	Additional Resources
☐ Teach memory strategies ☐ Write assignments in daily log		□ Abbreviations/expansion	□ Wisconsin Assistive Technology
$\Box$ write assignments in daily log $\Box$ Teach semantic mapping	Demonstrate & encourage use of technology (instructional and assistive)	□ Accessibility options on computer	Checklist
$\Box$ Teach peers how to be helpful	technology (filst uctional and assistive)	□ Alternative keyboards	$\Box$ Therapists, nurse, resource teachers,
	Consider Student's Behavioral	$\Box$ Communication cards or boards	school psychologist, counselor,
Consider Method of Instruction		$\Box$ Voice output communication device	rehab facility, parents, vision
	Needs	Portable word processor     Filence d text/magnificere	teacher, medical facility
□ Repeat directions	Teach expected behavior	Enlarged text/magnifiers     Recorded text/heals on tere(tellsing	
□ Increase active participation	□ Increase student success rate	Recorded text/books on tape/talking books	

### Accommodations & Modifications in the Secondary Classroom For a Student with Traumatic Brain Injury

Student:	Teacher:	Grade:	Today's Date:
Presenting Concerns:			
Birth Date:	Date of Injury:		
Consider Students Environment	<b>Consider Method of Instruction</b>	Consider Student's Behavioral	Consider Assistive Technology –
□ Post class rules (pictures & words)	□ Repeat directions	Needs – (Continued)	(Continued)
$\Box$ Post daily schedule (pictures & words)	□ Increase active participation	□ Learn to organize signs of stress	□ Voice output reminders
□ Give preferential seating	☐ Teacher circulate around room	$\Box$ Give non verbal cues to discontinue	□ Electronic organizers/PDA's/Palm
$\Box$ Change to another class	□ Provide visual prompts (board/desk)	behavior	computers
□ Change schedule (most difficult in	□ Provide immediate feedback (self	□ Reinforce positive behavior (4:1)	□ Pagers/electronic reminders
morning)	correcting seat work)	$\Box$ Use mild, consistent consequences	$\Box$ Large display calculators
□ Eliminate distractions (visual,	□ Point out similarities to previous	$\Box$ Set goals with student	□ Talking calculators
auditory, olfactory)	learning/work	$\Box$ Use key students for reinforcement of	□ Voice input calculators
□ Modify length of school day	$\Box$ Use manipulative materials	target student	☐ Math software
□ Provide frequent breaks	$\Box$ Use frequent review of key concepts	Use group/individual counseling	□ Portable word processor
$\Box$ Provide place for quiet time	$\Box$ Teach to current level of ability (use	□ Provide opportunity to role pay	□ Picture supported software
□ Maintain consistent schedule	easier materials)	□ Use proactive behavior management	
□ Move class site to avoid physical	□ Speak loud or slow or rephrase □ Preteach/Reteach	strategies	<b>Other Considerations</b>
barriers (stairs) □ Provide system for transition	☐ Freteach/Refeach ☐ Highlight/underline material		Home/School Relations
$\square$ Provide system for transition $\square$ Position appropriately	$\Box$ Use peer tutor/partner	Consider Assistive Technology	□ Schedule regular meetings for all
$\Box$ Explain disabilities to students	Use small group instruction	□ Talking spell checker/dictionary	staff to review progress/maintain
$\Box$ Use color-coded materials	$\Box$ Use simple sentences	□ Talking word processing software	consistency
	$\Box$ Use individualized instruction	Concept mapping software/templates	□ Schedule parent conferences
Consider Curricular Content &	$\Box$ Pause frequently	□ Word prediction software	every
Expectations	$\Box$ Discuss errors and how they were	☐ Multimedia software	□ Daily/weekly reports home
$\Box$ Reduce length of assignments	made	□ Keyguard for keyboard	Parent visits/contact
$\Box$ Change skill/task	Use cooperative learning	□ Macros/shortcuts on computer	$\Box$ Home visits
☐ Modify testing mode/setting	$\Box$ Use instructional assistants	□ Abbreviation/expansion	
$\Box$ Allow extra time	$\Box$ Encourage requests for clarification,	<ul> <li>Accessibility option on computer</li> <li>Screen reader software</li> </ul>	Disability Awareness
$\Box$ Teach study skills	repetition, etc.	$\square$ Alternate keyboards	$\Box$ Explain disabilities to other students
$\Box$ Teach sequencing skills	□ Elicit responses when you know	$\Box$ Voice recognition software	$\Box$ Teach peers how to be helpful
□ Teach visual imagery	student knows the answer	$\Box$ Communication cards or boards	
$\Box$ Teach memory strategies	$\Box$ Demonstrate & encourage use of	□ Voice output communication device	Additional Resources
$\Box$ Write assignments in daily log	technology (instructional and assistive)	$\Box$ Adaptive paper	□ Wisconsin Assistive Technology
□ Develop objective grading system		□ Single word scanners	Checklist
using daily participation as a	<b>Consider Student's Behavioral</b>	□ Enlarged text/magnifiers	$\Box$ Therapists, nurse, resource teachers,
percentage of weekly and final grade	Needs	Recorded text/books on tape/e-	school psychologist, counselor,
□ Teach semantic mapping	Teach expected behavior	text/ipod/MP3 player	rehab facility, parents, vision
$\Box$ Teach peers how to be helpful	□ Increase student success rate	□ Scanned text with OCR software	teacher, medical facility

**MATH AND LANGUAGE ARTS**. Ms. Walters is Jerry's core teacher; she teaches math, language arts, and science. Ms. Walters has read some about TBI, but she feels ill equipped to work with Jerry. Some of Jerry's problems are the same as the problems he had before his injury; he still has trouble getting started on classwork and completing homework. Ms. Walters had begun using a reward system with Jerry before his injury, and it was working well. She gave him a baseball sticker every time he turned in his math homework. Now she has doubled the reward – two stickers for each homework assignment – but Jerry isn't turning in his homework. She knows the homework is hard for him; he seems to be having trouble mastering the geometry unit. But she believes doing his homework will help Jerry understand the geometry concepts. She has spoken with Jerry's parents about his homework; they said they try to make him do it, but he gets frustrated quickly. Also, he falls asleep very early.

Some of Jerry's problems are new to Ms. Walters. For example, she is frustrated with Jerry's visual problems. She understands that he has "visual neglect" and doesn't see materials placed on his left. She read that she is supposed to remind him to "look left," and she does that ten times a day, but he still doesn't always read the left end of a line of print or complete math problems on the left of the page. She is feeling unsuccessful with Jerry and wonders if another teacher would do a better job.

1. What is the problem stated in observable, measurable terms? (You may identify more than one.)

- 2. How does Jerry's TBI influence the problem(s)?
- 3. Is/are the problem(s) a result of a skill deficit or a performance deficit?
- 4. What other factors influence the problem(s)?
- 5. What is the goal? (You may identify more than one.)

6.	6. What are the targets of intervention? What strategies could you use? (See pages 26a-n.)	
	Target:	Strategies:
	Target:	_Strategies:
	Target:	_Strategies:
	Target:	_Strategies:

7. How will you know if the plan is working? What data will you collect to monitor progress?

**MUSIC**. Jerry's music teacher is Ms. Belman. She is the favorite teacher of the fifth grade students, and Jerry loves her. Since his accident he has been affectionate toward her, giving her hugs at the beginning and end of class each day. Even though she thinks it is a bit unusual, she returns his hugs every day because she feels so badly about his accident. At a monthly meeting to evaluate Jerry's progress, she reported that Jerry is doing pretty well in music class. He sometimes gets agitated when the music is loud, so Ms. Belman lets him get up and move around, stand outside the door, or wear earplugs when the class is too loud for him. She informs him before class about what they will be doing and helps him choose his level of participation for the day. These strategies seem to be working well.

However, Ms. Belman has two concerns about Jerry. First, he always seems to be alone. Whenever she sees him in the cafeteria or on the playground, he is by himself. She saw him approach two boys throwing a football a couple of times, but the boys laughed when Jerry came near them. Her second concern is that Jerry sometimes comes down to the music room when he should be in other classes. She has also seen Jerry in other parts of the school when he should be in classes. Yesterday when she saw him near the back door and asked him what class he was supposed to be in, he said he was supposed to be in the Learning Materials Center working on his social studies project.

1. What is the problem stated in observable, measurable terms? (You may identify more than one.)

\_\_\_\_\_

- 2. How does Jerry's TBI influence the problem(s)?
- 3. Is/are the problem(s) a result of a skill deficit or a performance deficit?
- 4. What other factors influence the problem(s)?
- 5. What is the goal? (You may identify more than one.)

6.	What are the targets of intervention? What strategies could you use? (See pages 26a-n.)	
	Target:	_Strategies:
	-	-

7. How will you know if the plan is working? What data will you collect to monitor progress?

## **Intervention Planning Worksheet**

Student: Jerry (in math and language arts	s) Grade:	_ Date of Injury:
School:	_ Current Date:	
1. Problem(s)		
2. How does the brain injury influence t		
3. What other factors influence the pro	blem?	
4. Is the problem a result of a skill defic	it or a performance	e deficit?
5. Goals		

6. Targets (Problem A)	Strategies (examples)
Targets (Problem B)	Strategies (examples)
Targets (Problem C)	Strategies (examples)
Targets (Problem D)	Strategies (examples)
Targets (Problem E)	Strategies (examples)
7 How will your loss of the	a nlan is wanking?
7. How will you know th	e plan is working:
·	

## **Intervention Planning Worksheet**

Student: Jerry (in music) School:	_ Grade:	Date of Injury:
School:	Current Date:	
1. Problem(s)		
2. How does the brain injury influence		
3. What other factors influence the pro	blem?	
4. Is the problem a result of a skill defic	it or a performanc	ce deficit?
5. Goals		

6. Targets (Problem A)	Strategies (examples)
0. Targets (Troblem A)	Strategies (examples)
Targets (Problem B)	Strategies (examples)
Targets (Problem C)	Strategies (examples)
7. How will you know the	e plan is working?
~	