Resources for Assessment of Students who are Deaf and Hard of Hearing

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Assessment of Students who are Deaf and Hard of Hearing

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Introduction

This manual was prepared through the support of the Minnesota Department of Education — Minnesota Resource Center: Deaf/Hard of Hearing coordinated by Mary Cashman-Bakken.

The purpose of this manual is to provide information and guidance for conducting assessments and monitoring student progress as required for all children by federal, state, or local mandates developed since the passage of No Child Left Behind (NCLB).

Assessment and evaluation of progress among children who are deaf or hard of hearing is a complex process. Challenges often go undetected by individuals unfamiliar with the hidden impact of a hearing loss. Challenges to professionals in the field of D/HH education are particularly notable in the areas of information access, communication modalities, language, selection and application of assessment tools, technology, and access to highly qualified personnel. The local educational agency (LEA) continues to be responsible for providing a team comprised of a) qualified professionals and b) the parents to collect multiple sources of information relevant to determining eligibility for specialized services and then developing an educational program that is not only individualized but leads to measurable increases in learning.

For the first time, general education accountability legislation has had significant connection to children with disabilities, including children who are deaf and hard of hearing. No Child Left Behind (NCLB) has had an impact on the title as well as language in the 2004 re-authorization of the federal special education law. The 2004 Individuals with Disabilities Education Improvement Act (also known as Individuals with Disabilities Education Act or IDEA) clarified or modified various aspects of its original language on evaluation since this manual was last revised. These modifications include: a) requirements for highly qualified personnel, b) the types of measurement tools or technology approved for use, c) the relevance of general education information, d) the role and responsibilities of parents, e) the impact of student transfers within or outside a state, f) when re-evaluation is required, and g) access to general education instruction in reading and other selected curriculum areas.

Effective teachers of students who are deaf or hard of hearing have always understood the link between evaluation and instruction that results in increased learning, however, never before have these teachers faced the current level of mandates related to measuring their students’ academic achievement levels, rate of progress, and the reporting of their assessment results to so many constituencies. This manual is intended to support teachers in meeting their obligations to appropriately evaluate their students who are deaf or hard of hearing.
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Assessment Requirements

Several important laws require the participation of learners with disabilities, including those who are deaf or hard of hearing, in standards-based instruction and assessment initiatives. These federal laws, notably No Child Left Behind 2001 (NCLB) and the Individuals with Disabilities Education Improvement Act of 2004 (IDEA), provide direction for statewide assessment development and implementation at the local level. These requirements directly impact the special education teams working with children who are deaf or hard of hearing.

The accountability movement for results spearheaded the growth of statewide assessments. NCLB became the watershed mandate for public accountability in K-12 public education at the school, district, and state levels for all students, including those students with disabilities. IDEA clearly addresses facilitating all-student access to grade level instruction and state assessments and requires assurances from the states on these requirements. Providing high quality, annual assessments was the result of a federal policy drive for stronger accountability for results for all learners by providing important information on student learning at the grade, school, district, and state levels. Reporting is now extensive and public as a result of NCLB.

Statewide assessments have existed in Minnesota in various forms for selected grades in selected curricular areas for some time. Those requirements have grown in number and in specificity over the past seven years. Minnesota, like many other states, has both revised and augmented the number and kinds of assessments required of students in response to NCLB. While this law is not without some controversy and targeted criticism, there is no longer any question that children with disabilities, including those who are deaf or hard of hearing, must participate in these types of assessments.

Reasonable adaptations and accommodations for students with disabilities have been defined in IDEA. Other IDEA provisions related to accountability address the development of the long-standing IEP for accountability at the individual level, the requirement to include in the IEP a statement of any individual modifications in the administration of state or district-wide assessments of student achievement that are needed in order for the learner to participate in such assessment; and if the IEP team determines that the learner will not participate in a particular state or district-wide assessment of student achievement (or part of such an assessment), a statement of why that assessment is not appropriate for the learner; and how the learner will be assessed [Sec. 614 (d) (1) (A) (V) and VI].

When IDEA was re-authorized in 2004, the augmented title of that law includes the word “improvement” which signaled the intention of national policy-makers that “all” really meant “all” in terms of accountability for results was not negotiable. Changes in requirements for teachers, including those licensed to teach students with special education needs, and revisions of curriculum standards buttressed the assessment for results policy refinements. Teacher training programs responded to these policy changes and material and training supports to teachers in the field had to be developed and provided. This manual is but one example of increasing support mechanisms for teachers.

The MN Department of Education website provides a variety of documents and training opportunities to support teachers with their responsibilities for assessment and accountability. Teachers should review these resources on a regular basis. Teachers are critical players in ensuring that learners who are deaf or hard of hearing have equal
access to grade-level content standards and participate in the accountability measures that are increasingly required. Teachers of the deaf and hard of hearing bring their specialized skills and knowledge of specific instructional strategies needed by students with hearing loss as well as providing accommodations during instruction and assessments.

As indicated earlier, effective teachers of the deaf and hard of hearing have always recognized the critical link between assessment and instruction in curricular areas. Even though such linkage has been formalized in policy initiatives at the federal and state levels, it remains critical to individual learning and progress. The linkage for the individual student between instruction and assessment must not be neglected or forgotten as a result of efforts required to meet state and federal requirements. Success at the individual student level remains paramount to special education service design and delivery.
MINNESOTA CRITERION FOR DEAF AND HARD OF HEARING
(MINNESOTA RULE SECTION: 3.3.6)

https://www.revisor.leg.state.mn.us/rules/?id=3525.1331

1. Definition. “Deaf and hard of hearing” means a diminished sensitivity to sound, or hearing loss, that is expressed in terms of standard audiological measures.

Hearing loss has the potential to affect educational, communicative, or social functioning that may result in the need for special education instruction and related services.

2. Criteria. A pupil who is deaf or hard of hearing is eligible for special education instruction and related services if the pupil meets one of the criteria in item A and one of the criteria in item B, C, or D.

A. There is audiological documentation provided by a certified audiologist that a pupil has one of the following:

   (1) A sensorineural hearing loss with an unaided pure tone average, speech threshold, or auditory brainstem response threshold of 20 decibels hearing level (HL) or greater in the better ear.

   OR

   (2) A conductive hearing loss with an unaided pure tone average or speech threshold of 20 decibels hearing level (HL) or greater in the better ear persisting over three months or occurring at least three times during the previous 12 months as verified by audiograms with at least one measure provided by a certified audiologist.

   OR

   (3) A unilateral sensorineural or persistent conductive loss with an unaided pure tone average or speech threshold of 45 decibels hearing level (HL) or greater in the affected ear.

   OR

   (4) A sensorineural hearing loss with unaided pure tone thresholds at 35 decibels hearing level (HL) or greater at two or more adjacent frequencies (500 hertz, 1000 hertz, 2000 hertz, or 4000 hertz) in the better ear.

B. The pupils hearing loss affects educational performance as demonstrated by one of the following:

   (1) A need to consistently use amplification appropriately in educational settings as determined by audiological measures and/or systematic observation

   OR

   (2) (a) Basic reading skills

   (b) Reading comprehension

   (c) Written language

   (d) General knowledge
C. The pupil's hearing loss affects the use or understanding of spoken English as documented by one or both of the following:

(1) Under the pupil's typical classroom condition, the pupil's classroom interaction is limited as measured by systematic observation of communication behaviors;

AND/OR

(2) The pupil uses American Sign Language or one or more alternative or augmentative systems of communication alone or in combination with oral language as documented by parent or teacher reports and language sampling conducted by a professional with knowledge in the area of communication with persons who are deaf or hard of hearing.

D. The pupil's hearing loss affects the adaptive behavior required for age-appropriate social functioning (both must be present):

(1) Documented systematic observation within the pupil's primary learning environments by a licensed professional and the pupil, when appropriate

AND

(2) Scores on a standardized scale of social skill development are below average scores expected for same-aged peers.
Overview of Assessment with Deaf and Hard of Hearing Learners

This section addresses a general overview of issues, policies, and principles that are pertinent to evaluating and assessing young children, and school-age learners who are deaf or hard of hearing in a manner that is consistent with legislative policy, rules and best practices.

Purpose of Assessment and Evaluation

Assessment and evaluation include the process of collecting and interpreting information for the purpose of:

1) identifying and verifying an educational disability,

and

2) making educational recommendations in keeping with the learner's strengths and needs.

Assessment and evaluation are required aspects of the current NCLB and IDEA-2004 that mandates the educational rights of children including those individuals with disabilities. These laws require, at minimum, that:

- tests and other materials used are selected and administered in a non-discriminatory manner in terms of race and culture by trained and knowledgeable personnel in accordance with the standards provided by the test developer and, if not, include a description of the extent to which any accommodations or modifications were used in the written report.

- tests and other procedures must be administered in a learner's native language and/or mode of communication unless not feasible.

- a single criterion may not be used for determining a disability (e.g. an audiogram alone cannot be used to determine if an individual is in need of special education services).

- a comprehensive assessment includes all areas appropriately related to all areas of concern or potential need and not just those areas commonly linked to hearing loss.

- assessment results must be technically sound (valid and reliable)

- relevant functional and developmental assessment about the learner must include information from the parent.
The federal law emphasizes the importance of:

- information related to enabling the learner to be involved and progress in the general education curriculum or in the case of a young child, appropriate preschool activities; and

- the use of assessment tools and strategies to address the relative contribution of cognitive and behavioral factors, in addition to physical or developmental factors (e.g. a learner with a hearing loss may also have special education needs related to cognitive or behavioral factors).

Determination of eligibility or continuation in special education is a TEAM decision and cannot be made independently by an individual.

Teachers licensed to teach learners who are deaf or hard of hearing must follow all of IDEA’s requirements for evaluation and re-evaluation including:

- the role and rights of parents in terms of evaluation/re-evaluation;
- the requirements for coordination with general education;
- the relationship to general education curricula; and
- who may request an evaluation or re-evaluation.

Federal law and regulations change, as do state law and rule. Keeping current with those changes is critical. While federal regulations supersede any State of Minnesota requirements, state rule may exceed federal requirements provided they are consistent with the definitions and intent of the federal law.
Informal and Formal Assessments

Identifying learners who are deaf/hard of hearing as eligible for special education services typically requires formal, standardized, norm-referenced testing, that reflects multifaceted aspects that impact learning, e.g. sensory and intellectual evaluation. Informal assessment data (e.g. observation data, interviews with parents and learners) also plays a critical role in the determination of a learner’s strengths and needs.

Assessments conducted for educational planning purposes include a variety of assessment procedures that may or may not include traditional norm-referenced, standardized assessments, direct observation, and progress monitoring procedures.

Formal Assessments

Formal assessments are measures that provide standardized procedures using statistically-based systems for comparisons.

The role of formal assessments:

- To make comparisons between groups of learners.
- To determine placement of learners.
- To monitor individual or group progress.
- To provide accountability

Formal assessment types:

Criterion-referenced

A measure that allows the comparison of a child’s performance to a particular skill at a specified level (e.g. high school graduation examination).

Norm-referenced

A measure that allows comparison of the child’s performance in comparison to his/her peers in a normative sample (e.g. Achievement tests).

Standardized

A test that is administered in a consistent manner. All items, conditions, scoring, and interpretations are controlled to remain consistent (e.g. Curriculum Based Measurement- CBM)
Informal Assessments

Informal assessments are important due to the difficulties encountered in traditional formal testing, and the limited set of technically adequate formal assessment tools appropriate for use with learners who are deaf or hard of hearing.

The role of informal assessments:

- Confirm or dispute information obtained from formal assessment procedures.
- Collect data not addressed or available through formal assessments.
- Determine student’s functional skills relative in familiar and unfamiliar environments.

Informal assessment process may include:

- Systematic observations
- Parent interviews
- Teacher interviews
- Student interviews
- Data collection from permanent products, such as:
  - Student performance on curriculum unit tasks
  - Student work samples
- Student portfolios
- Objective staff comments and observations

Curriculum Based Assessment (CBA)

What are Curriculum-Based Assessments?

Curriculum-based assessmenta (CBA) are any procedures that directly assess student performance within the course content (Tucker, 1985, p. 200). The purpose is to evaluate a student's skills on task-specific items or criterion-referenced performance measures within a particular curriculum.
Why use Curriculum-Based Assessments (CBA)?

Curriculum-based assessments measure the students' learning as it relates to the requirements of a curriculum and are the most commonly used methods for assessment of content knowledge in the classroom. CBA incorporates a wide range of procedures used to evaluate student performance, including:

- Teacher-made tests
- Criterion-referenced measures
- Performance-based measures
- Student reports, products, and portfolios
- Behavioral observations
- Language samples

One of the disadvantages of using a variety of CBA is that the results cannot be used effectively to demonstrate student progress. The academic performance standards or criteria for performance are continuously changing, e.g. different types of questions, level of difficulty may vary from week to week.

Curriculum Based Measurement (CBM) and Mastery Monitoring MM are two forms of CBA that provide technically sound approaches or indicators to monitor the effects of instruction and interventions. For more information regarding CBM and MM, see: http://www.studentprogress.org.

Systematic Observations

What is systematic observation?

Systematic observation may occur in a variety of settings. Typically the student is observed in his/her classroom or in school-based social settings. Systematic observations require the teacher of the deaf/hard of hearing to observe behaviors relative to the student's functioning. The data collected quantifies functional behaviors through frequency counts, rate of occurrence, duration etc. in an objective, data-specific format.

Data obtained through systematic classroom observations conducted by a teacher of the deaf/hard of hearing is one of the eligibility components in the Minnesota Criterion for Deaf and Hard of Hearing (Minnesota Rule Section 3.3.6)

Section C (1) states: “The pupil’s hearing loss affects the use or understanding of spoken English as documented by one or both of the following: (1) Under the pupil’s typical classroom conditions, the pupil’s classroom interaction is limited as measured by systematic observation of communication behaviors”. (See Appendix A)
Why are systematic observations conducted?

- Objective data resulting from a systematic observation may be gathered to assist the student’s team with educational planning when no other tools are appropriate, available, or judged to be valid or reliable.

- Objective observational data may be used in selected Present Level of Educational Performance (PLEP) statements of the IEP. The PLEP requires the student’s educational team to address the student’s progress in the general education curriculum.

When are systematic observations conducted?

- For initial and three year re-evaluations;
- To determine how much/to what degree a student is participating the in a general education setting;
- To determine IEP accommodations (i.e. electronic note-taking, a paraprofessional, etc.)
- To observe specific academic or social behaviors in response to parent or team member concerns.
- To describe student’s functional use of school-based amplification system (in concert with the educational audiologist)
- To determine the student’s information and communication access and participation in instructional/social settings (e.g. auditory-oral, transliterator - see Appendix B)

-See Appendix C for considerations during systematic observations-

Planning Systematic Observation

Who should observe the deaf or hard of hearing student and record the data?

Best practices recommend that the D/HH teacher observe, record, and interpret the data gathered from a classroom observation. The D/HH teacher is prepared to observe the student who is deaf/hard of hearing through the “lens” of how the student’s language-related issues might be contributing to the student’s progress and can report and interpret the data relative to the educational needs of the student.

When should the student be observed?

The student should be observed during a lesson when both the teacher/s and the students will be contributing to the lesson. Choose a subject that is “language rich” and provides opportunities for the D/HH teacher to observe how the
student’s hearing loss is impacting his/her learning. Typically subjects such as reading, social studies, science, health, language arts, or a morning meeting time provide good systematic observations. Observe for the entire lesson.

How is the observation conducted?

The D/HH teacher determines, based on the purpose of the observation and the type of data required, the specific behaviors that need to be observed. The behavior of the student is recorded using charting or tally procedures or narrative forms. (See Appendix A)

What method of data collection is most appropriate for use with students who are deaf/hard of hearing?

No one method is best, The purpose of the observation will determine the method. Determining the approach or method will depend on the areas of concern and the context in which they occur.

How many systematic observations should be completed?

The frequency is determined based on the purpose and the behavior being observed. The number and frequency of observations is dependent on several factors such as the degree and level of concern, and how the observational data will be used to adjust or modify instructional strategies.

How will the data resulting from the systematic observations be used?

The observational data must be evaluated by the student’s IEP team regarding the validity, reliability, and relevance of the data as it relates to the student’s learning. Data resulting from the systematic observations, in conjunction with formal and informal data, can assist the student’s IEP team in developing the educational needs and accommodations that are correlated with classroom functioning. (See Appendix D)
Parent Interviews

IDEA requires that parent input be obtained as part of the initial and three year re-evaluation process. The Assessment Team determines what member of the team will interview the parent(s). Structured interviews, behavioral checklists and rating scales may be used. During the interview, the Assessment Team member must solicit information about issues or behaviors relevant to the reason for the referral, or situations in which the behaviors occur and the impact on the student's academic and social profile.

The D/HH teacher is frequently asked to interview the parents. In this case, the teacher may collaborate with other members of the team, (e.g. school nurse, speech therapist, general education teacher) to develop interview questions.
Teacher Interviews

Perspectives from the student’s teachers and support staff (e.g. tutor, speech pathologist) are considered an important component of the assessment process. The D/HH teacher may design interview questions that are specific to the student. Commercial teacher interviews, developed for students who are deaf/hard of hearing can be used, such as the Preschool SIFTER, SIFTER, Secondary SIFTER, FAPI, and LIFE, which can be found at the following website:

http://www.kandersonaudconsulting.com/TESTS.html

Student Interviews

It may be appropriate to include information from the student regarding his/her impressions through a structured interview or checklist. Interview techniques may include information about how the student views his/her hearing loss, successes and challenges in the school environment, friendships, and opportunities for socialization. Student use of assistive technology at school and home, as well as the student’s impression of his/her strengths and challenges are informative as well.

When using an interview format with a student who is deaf or hard of hearing, the interviewer must attend to the student’s expressive and receptive language skills, the interview’s ability to meet the student’s communication needs, and how these language and communication factors may influence the self-reporting procedure.

See Appendix E for sample student interview questions
Student Progress Monitoring

Why monitor student progress?

- Monitoring student progress assists teachers, parents and administrators in making informed instructional decisions.
- Monitoring student progress demonstrates the student’s rate of growth toward meeting the annual instructional goals.
- Monitoring student progress provides documentation for informed decision making regarding placement, effective use of communication modalities, and language development.
- Monitoring student progress provides students with feedback and motivation to learn.
- Monitoring student progress provides D/HH teachers with objective evidence that the student is progressing academically.

IDEA -2004, mandates accountability at several levels including the demonstration of student progress. While achievement tests (e.g. SAT-HI, IBS) have been used for decades in the field of education with learners who are deaf or hard of hearing, there is a need and mandate to monitor student’s academic growth at frequent and regular intervals. Documentation of student progress may include formal and informal assessments including those described previously e.g. systematic observations, formal and informal assessments. The only evidenced-based measures currently available include Curriculum Based Measurement (CBM) and Mastery Monitoring (MM).

More than 20 years of research has been conducted focusing on the CBM process, format, and effect on student growth. The principles of CBM have been applied for use with students who are deaf or hard of hearing only recently. For more information regarding the CBM and its application with learners who are deaf or hard of hearing see: http://www.progressmonitoring.net and http://www.studentprogress.org

When should students be monitored for progress?

Progress monitoring using the CBM or MM process and indicators should occur ideally on a weekly basis and minimally, monthly.

How should student progress be monitored?

A variety of methods are available for monitoring student progress including:

- Functional Behavior Analysis (FBA) — to monitor students social behavior
- CBM- MAZE may be used to monitor students’ progress in reading. (NOTE: Oral reading measures should not be used with learners with hearing loss except in highly specialized circumstances. (See www.edcheckup.com, www.aimsweb.com, www.dibels.com)
- Test of Silent Contextual Reading Fluency (TOSCRF) may be used with secondary students who are deaf or hard of hearing and who are reading at the 4+ grade level. (See www.proedinc.com)
CBM- Correct Word-Incorrect Sequence (C-IWS) and Total Words Written (TWW) may be used to monitor students’ progress in written English. (See www.edcheckup.com www.studentprogress.org)

CBM- Math (See www.interventioncentral.org)

Criterion-based assessment (e.g. Brigance, Syntactic Structures, DIBELS) may be used as Mastery Monitoring progress monitoring tools. (See www.dibels.com www.ggg.net)
Intelligence Assessments

Reasons to Assess

The intelligence test score should not be the only piece of information on which decisions are based. Intelligence tests are part of a comprehensive evaluation that draws from different information sources and combines with the results of other educational domains. Observation of the student in various settings (e.g. home, school, community) should be included in the evaluation to better understand and interpret the student’s strengths and weaknesses and subsequent educational needs (AERA, APA, NCME, 1999). This multifaceted approach helps the team establish a pattern of the child’s needs and strengths that guide program planning. An assessment is only conducted if cognitive ability is an area of concern expressed by the educational team. Testing may take place as part of an initial special education evaluation or as part of the learner’s re-evaluation.

Other reasons to measure intelligence include:
- Coexisting disability, such as a developmental cognitive disability
- Appropriate identification, program, or placement for the student
- Gifted status of the student

Challenges During Testing

Many qualifications are required of school psychologists who work with D/HH learners. These include, but are not limited to:
- Fluency in the learner’s primary language or mode of communication
- Understanding the interaction between child development and hearing loss
- Experience with measures that can be appropriately used with the D/HH learner

These skills/traits support the school psychologist's clinical judgment, which plays a crucial role in test selection, administration, scoring, and interpretation of results. These qualifications are needed to address the lack of standardized testing procedures that address communication needs and modalities. Well-established standardized and norm-referenced tests include: 1) learners who are deaf and hard of hearing in the standardization sample, 2) trained and qualified personnel to work with learners who are D/HH, and 3) valid interpretation of test scores.

Who should assess cognitive abilities in learners who are deaf or hard of hearing?

A licensed school psychologist is the only person qualified to administer intelligence tests and those working with deaf and hard of hearing learners. Those school psychologists should have the following qualifications:
- Familiarity with the impact of hearing loss on testing and classroom performance
- Familiarity with the diverse characteristics of children who are deaf or hard of hearing
- Experience with interventions for children who are deaf or hard of hearing
- Ability to communicate effectively with the child
- Access to the educational history and background information about the child
Using Clinical Judgment

Standardized practices are designed to ensure that the student’s score and test results can be compared to the scores and performance of the individuals within the test’s norming sample. The assumption is that the student took the test under the same conditions as those in the normative group. The paucity of assessments designed for use with deaf and hard of hearing students makes this expectation nearly impossible to achieve. The school psychologist often needs to alter the administration, scoring, and interpretation of assessment tools when using them with this population (Goffman, R.L., 2007). It is critical for the school psychologist to have a good understanding of how any changes to the test and/or test environment impact interpretation of results. The following is a list of actions that can alter standardized test procedures, weaken the assessor’s confidence, or invalidate the assessment results.

• Adaptation of test items.

• Adaptation of required time limits.

• Modification of the mode by which test instructions are communicated (e.g., ASL, Signed English, Cued Language, pantomime or print in place of or in combination with spoken directions).

• Accepting responses different from those specified in the test directions.

• Ignoring the potential for differences in acculturation between persons who are deaf and persons comprising the standardization sample (Salvia & Ysseldyke, 2004)

Points to Consider in Assessment Planning

When selecting a test, the school psychologist must have information about the reason for testing, level of acculturation, the presence of coexisting disabilities, and student background, which includes, but is not limited to:

• age of diagnosis
• degree of hearing loss
• etiology
• age of amplification
• history of amplification use/benefit
• educational history
• language history
• primary mode of communication
A school psychologist assessing a child with a hearing loss must be able to understand how the following variables interact and impact the assessment process. Below are some examples of such interactions:

- Verbal intelligence tests are dependent on English language skills. Using spoken or written language scales or tests that rely on spoken or written instructions leads to questionable validity for learners who are D/HH (Maller & Braden, 1993). The assumption is that a learner who is D/HH has been exposed to the linguistic, semantic and pragmatic information inherent in the test items in a manner that is similar to those in the normative sample (Braden & Athanasiou, 2005). This is not a valid assumption due to the potential impact of hearing loss on access to language and auditory information. (Braden, 1994).

- On nonverbal tests of intelligence, learners who are D/HH tend to perform within the normal range. However, if the nonverbal test does not include the manipulation of materials (non-motor), D/HH learners, on average, may score lower than the mean for hearing learners on tests that are both non-motor and non-verbal (Braden, 1994; Braden, Kostrubala, & Reed, 1994).

- For young learners who are D/HH or if a cognitive disability is suspected, it is a best practice to conduct both an intellectual assessment and a functional skills assessment for comparison before making any educational decisions.

- Physical disabilities that affect motor skills are commonly present with some coexisting conditions (i.e. cerebral palsy, C.H.A.R.G.E syndrome…etc). It is important to consider the impact this can have on assessment results that require manipulation of materials such as blocks, chips, and tiles.
### Table A: Intellectual Assessment Tools Used with Learners who are Deaf/Hard of Hearing.

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<thead>
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<th>Test</th>
<th>Author/Publisher</th>
<th>Timed?</th>
<th>Time*</th>
<th>Use of Fine Motor Skills</th>
<th>Communication Mode</th>
<th>Notes</th>
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<tr>
<td>LEITER-R</td>
<td>Roid &amp; Miller, 1997 / Psychological Assessment Resources, Inc (PAR, Inc)</td>
<td>Minimal timing in 3 subtests. Most subtests are untimed.</td>
<td>25-40 minutes</td>
<td>No</td>
<td>Gestures; demonstration. Subtests provide initial training trials.</td>
<td>Ages 2 to 20-11 years; A small group of individuals with “severe hearing impairment” were included during test development</td>
</tr>
<tr>
<td>Wechsler Intelligence Scale for Children — Fourth Edition (WISC-IV)</td>
<td>Wechsler, 2004 / Pearson Education, Inc.</td>
<td>Yes (Block Design subtest only)</td>
<td>65-80 minutes</td>
<td>Yes (Block Design, Cancellation Subtests)</td>
<td>Auditory/signed instructions and demonstration</td>
<td>Age range 6 to 16-11 years; Caution is advised when using of the Digit Span subtests of the Wechsler measures and should be applied by using other tests that rely on short-term memory for sequential information due to the affect of language modality during administration. (Boutla, Supalla, Newport, &amp; Bavelier, 2004); Careful interpretation of scores is advised — verbal results may be better used to predict academic achievement in an inclusive setting over intellectual ability</td>
</tr>
<tr>
<td>Wechsler Adult Intelligence Scale — Third Edition (WAIS-III)</td>
<td>Wechsler, 1997 / Pearson Education, Inc.</td>
<td>Yes</td>
<td>60-75 minutes</td>
<td>Yes</td>
<td>Auditory/signed instructions and demonstration</td>
<td>Age range 16 to 89 years; A new version of the WAIS coming out in late 2008; apply cautious interpretation of verbal results</td>
</tr>
<tr>
<td>Wechsler Scale of Nonverbal Ability (WNV)</td>
<td>Wechsler &amp; Naglieri, 2006 / Pearson Education Inc.</td>
<td>No</td>
<td>20-45 minutes</td>
<td>Yes</td>
<td>Pictorial directions</td>
<td>Age range 4 to 21-11 years; Developed for linguistically diverse populations, including D/HH learners.</td>
</tr>
<tr>
<td>Universal Nonverbal Intelligence Test (UNIT)</td>
<td>Bracken &amp; McCallum, 1998 / Nelson Education</td>
<td>No</td>
<td>30-45 minutes</td>
<td>Yes</td>
<td>Standardized gestures and demonstration</td>
<td>Age range 5 to 17-11 years; Assumes limited linguistic mediation or acculturation</td>
</tr>
<tr>
<td>Test</td>
<td>Author/Publisher</td>
<td>Timed?</td>
<td>Time*</td>
<td>Use of Fine Motor Skills</td>
<td>Communication Mode</td>
<td>Notes</td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Kaufman Assessment Battery for Children — 2nd Ed. (K-ABC II)</td>
<td>Kaufman &amp; Kaufman, 1996 / Pearson Education</td>
<td>No</td>
<td>25-55 minutes</td>
<td>No</td>
<td>Pantomime; motor responses</td>
<td>Age range 3 to 18 years; Allows for teaching items; tips for pantomime in manual</td>
</tr>
<tr>
<td>Reynolds Intellectual Assessment Scales (RIAS)</td>
<td>Reynolds &amp; Kamphaus, 2003 / Psychological Assessment Resources, Inc (PAR, Inc)</td>
<td>Yes</td>
<td>30-35 minutes</td>
<td>No</td>
<td>Auditory/signed instructions and demonstration</td>
<td>Age range 3 to 94 years; relatively brief test; has special testing considerations in the manual for D/HH learners; requires cautious interpretation of verbal results</td>
</tr>
<tr>
<td>Transdisciplinary Play-based Assessment</td>
<td>Linder, 1999 (and others) / Brookes Publishing</td>
<td>No</td>
<td>60-90 minutes</td>
<td>No</td>
<td>Mostly observation</td>
<td>Age range birth to 6 years; requires completion by a multi-disciplinary team</td>
</tr>
</tbody>
</table>

*Use of alternative means of communication (i.e. ASL) can extend administration time
Social/Emotional Development and Behavior Skills Domain

Reasons to Assess

Social/emotional/behavioral assessment should be considered as part of the evaluation process due to potential limitations to language and social experiences imposed by hearing loss (Greenberg & Kusche, 1989). An evaluation should be considered when the learner exhibits social or emotional behaviors of concern that interfere with learning and prior interventions have not resulted in improved behavior (Goffman, 2007).

Types of Social Emotional Assessments

There are a variety of methods to assess the social emotional competencies of learners who are D/HH. Each method yields information about different aspects of learner behavior. For example, a functional behavior assessment is designed to understand the function of the learner’s undesirable behavior and yields a positive behavior support plan, whereas a behavior rating scale is designed to identify the learner's strengths and weakness and delays in social skill development. More than one method is typically used during a student evaluation.

- Structured interviews
- Rating Scales
- Behavioral observations
- Functional Behavioral Assessment (FBA)
  http://www.fape.org/idea/what_idea_is/isher/main.htm

Points to Consider in Assessment Planning

- A multi-method assessment approach that includes systematic observation of the targeted behavior(s), interviews with relevant informants using a structured interview procedures, behavioral checklists or rating scales, and norm-referenced tests as appropriate.
- Personality tests tend to be poor indicators when used with D/HH students and are not recommended.
- Assess student behavior across settings to provide valuable comparative data important for program planning.
- Identify environmental variables or conditions that may impact behavior (i.e., background noise, visual distractions, light source).
- Interpersonal communication between the learner and significant others at home and school.
- Barriers to accessing social information that are often conveyed through the auditory channel or through a combination of speech and body language.
• Cultural differences and expectations.

**Challenges Assessing Learners with Hearing Loss**

Professionals evaluating the learner who is deaf or hard of hearing must be sufficiently knowledgeable in the field of hearing loss. Interpersonal communication skills are a necessary part of the data collection process as the examiner must be able to communicate well with all relevant information providers.

Modification of test items may be needed to accommodate the learner’s sensory needs and reading level. Inappropriate items (e.g., items that reference iPods or cell phone use) should be deleted or modified to include use of adaptive technology (e.g., videophones or text messaging) and these modifications must be addressed within the body of the report, including their impact on test result interpretation.
<table>
<thead>
<tr>
<th>Test Name</th>
<th>Author/Publisher</th>
<th>Focus of Test</th>
<th>Time</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behavioral Assessment Scales for Children (BASC)-2</td>
<td>Reynolds &amp; Kamphaus, 2004</td>
<td>Assesses the behaviors and emotions of children and adolescents</td>
<td>10-30 minutes</td>
<td>For ages 2 to 21-11 years</td>
</tr>
<tr>
<td>Swanson, Nolan, And Pelham (SNAP-4)</td>
<td>Swanson, Nolan, &amp; Pelham, 1983 / <a href="http://www.myadhd.net">www.myadhd.net</a></td>
<td>A checklist to determine if symptoms of ADHD are present</td>
<td>10-20 minutes</td>
<td>Ages 6 to 12 years; ADHD screening; Internet-based</td>
</tr>
<tr>
<td>Meadow Kendall Social Emotional Assessment for Deaf Children</td>
<td>Meadow-Orlans, 1983 / Laurent Clerc National Deaf Education Center</td>
<td>Assesses domains of social adjustment, self-image, and emotional adjustment for deaf or hard of hearing learners.</td>
<td>15-20 minutes</td>
<td>Designed for D/HH students; caution due to date of norms; caution also advised with use of self-image subscale (school-age inventory) with students with additional disabilities</td>
</tr>
<tr>
<td>Behavior Rating Inventory of Executive Functioning (BRIEF)</td>
<td>Giola, Isquith, Guy, &amp; Kenworthy, 2000 / Psychological Assessment Resources, Inc (PAR, Inc)</td>
<td>Assesses impaired of executive function</td>
<td>10-20 minutes</td>
<td>Ages 5 to 18 years; assesses impairment of executive function</td>
</tr>
<tr>
<td>Matson Evaluation of Social Skills — D/HH version</td>
<td>Newburg-Rinn, 1995 / IDS Publishing</td>
<td>Assesses social skills</td>
<td>15-20 minutes</td>
<td>Ages 14 to 21 years; normative sample includes deaf youth, but very few hard-of-hearing youth</td>
</tr>
<tr>
<td>Children’s Depression Inventory (CDI)</td>
<td>Kovacs, 1992 / Pearson Education</td>
<td>A self-report test that assesses cognitive, affective, and behavioral signs of depression in learners</td>
<td>10-15 minutes</td>
<td>Ages 6 to 17 years; items can be read to learners</td>
</tr>
<tr>
<td>Social Skills Rating System (SSRS)</td>
<td>Gresham &amp; Elliot, 1990 / Pearson Education</td>
<td>Multirater assessment of the learner’s social behavior</td>
<td>15-25 minutes</td>
<td>Ages 3 to adult; 3rd grade reading level required; Low reliability on some subscales</td>
</tr>
<tr>
<td>Piers-Harris Children’s Self-Concept Scale, Second Edition</td>
<td>Piers, Harris, &amp; Herzberg, 1969 / Western Psychological Services</td>
<td>Assesses the self-concept of the learner</td>
<td>10-15 minutes</td>
<td>Ages 7 to 18 years; 2nd grade reading level required</td>
</tr>
<tr>
<td>Test Name</td>
<td>Author/Publisher</td>
<td>Focus of Test</td>
<td>Time</td>
<td>Notes</td>
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<td>-----------------------------------------------</td>
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<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Motivation Assessment Scale (MAS)</td>
<td>Durand &amp; Crimmins, 1992 / <a href="http://www.monacoassociates.com">www.monacoassociates.com</a></td>
<td>Assesses the function or motivations of behavior problems</td>
<td>10-20 minutes</td>
<td>All ages; useful when completing functional behavior assessment; Examines the reasons behind problem behavior</td>
</tr>
<tr>
<td>Transdisciplinary Play-Based Assessment</td>
<td>Linder, 1999 (and others) / Brookes Publishing</td>
<td>To assess child development, notably in the social domain</td>
<td>60-90 minutes</td>
<td>Requires completion by a multidisciplinary team; Requires time to plan individualized activities and conducting assessment over multiple periods</td>
</tr>
<tr>
<td>Scales of Independent Behavior, Revised (SIB-R)</td>
<td>Bruininks, Woodcock, Weatherman, Hill, 1984 / Riverside Publishing</td>
<td>Comprehensive, norm-referenced assessment of adaptive and maladaptive behavior</td>
<td>45-60 minutes</td>
<td>Infancy to 80+ years; focus on social skills;</td>
</tr>
<tr>
<td>Vineland Adaptive Behavior Scales, Second Edition (2005)</td>
<td>Sparrow, Balla, &amp; Cicchetti, / Pearson Education</td>
<td>Measure of personal and social skills needed for everyday living</td>
<td>20-60 minutes</td>
<td>3 to 21 years; Classroom edition includes norms for deaf learners in grades K-6, and attending a residential school</td>
</tr>
</tbody>
</table>
Language Assessments

Language assessment provides information that allows teachers to establish goals and identify areas in language for focused instruction that will improve the communication process and literacy skills. Accurate assessment of deaf and hard of hearing learner’s language development and proficiencies is critical for making placement, curriculum, program decisions, and in determining instructional effectiveness. Educators need to consider several issues when selecting, administering, and interpreting findings of language assessments for students with hearing loss.

Approaches to Language Assessment

Informal assessments are considered to be “process-oriented” and are based on the assumptions that language performance should be observed in context and evaluated over time against the child’s own baseline (Jamieson, 2003).

- Receptive Language
- Expressive Language
- Forms of Language (e.g. English, ASL)

Cued Speech, Signing Exact English, and Visual Phonics are not considered forms of language. Rather they are modes of communicating the phonemes or grammar of a standard language form (e.g. English, Hmong, ASL).

Language Sampling

Informal assessment of spontaneous expressive spoken, signed, or written language can be used to determine a student’s use of semantic relationships, and pragmatic use of language (Mercer & Mercer, 2001). Spontaneous spoken or written language samples may be used to identify the student’s proficiency in the use of standard English grammar, semantics, and pragmatic use of language.

Language samples may be obtained from written products incorporated in a portfolio or through direct observations of students in communicative environments. The absence of a language skill may not necessarily mean that the child has not mastered that skill; it may be that the child did not have the opportunity during the time of the observation or within the writing context to demonstrate it. McLean and Snyder-McLean (1978) listed the following procedures for obtaining a language sample:
- Use toys, objects, situational pictures, or activities with which the student is familiar in an informal setting in which the student interacts with a familiar adult or peer.
- Videotape the student's interactions, obtaining a sample of 50 to 100 utterances.
- Maintain informal conversational interactions.

Written language samples may be analyzed using criterion-referenced checklists, Curriculum Based Measures (CBM), trait analysis scales or rubrics. The information obtained from a language sample:
- May be used to identify the learner's specific syntactic, semantic, and pragmatic strengths.
- Should not be used to assess English lexical or syntactic skills if:
  - The language sample is transcribed from one modality to another, such as signs to written forms of English; or
  - The language sample is transcribed from one language to a second language, such as from American Sign Language to English because the transitions between modalities or language forms are not uniformly equivalent (Rose, McAnally, & Quigley, 2004, p. 201).

As with all language assessments, information gathered through language samples should be used in combination with other assessment data to develop the goals and objectives for language practice and to determine student progress (Rose et al., 2004, p. 201).

Language samples may be analyzed both qualitatively and quantitatively. Evaluation checklists such as rubrics and grammatical features can provide a general guideline for instructional planning. Rose, et. al. (2004) list other qualitative indicators of language competencies which include:

- **Type-Token Ratio (TTR)** is a measure or ratio of the number of different words compared to the total number of words used.
- **Mean Sentence Length (MSL)** is the mean number of words used per sentence.
- **T-Unit Length (T Units)** is a measure or mean of the number of words per thought unit, that is, a complete phrase or simple statement (Hunt, 1965).
- **Correct Word Sequence (CWS)** is a measure of two adjacent, correctly spelled words syntactically and semantically acceptable to a native speaker of English.
Language-Based Portfolio Assessment

A portfolio is a collection of representative, ongoing, and changing samples of student work and may include products from more than one academic area that demonstrates a student's highest level of performance (Paulson, Paulson, & Meyer, 1991). The student is actively involved with the teacher in determining the contents of the portfolio, in assessing performance, and in determining needs and goals. Developing and maintaining a portfolio is an exercise in developing an organized collection of work but, more importantly, it is a process in learning. Each product included in the portfolio represents learning experiences and goals determined by the student, sometimes in collaboration with the teacher and/or peers.

Language portfolios may include a variety of products, including:

- Written compositions
- Videos/CDs of storytelling and retelling
- Letters
- Student-produced newsletters
- Classroom tests and checklists
- Teacher-student conference notes
- Interactive computer peer conferencing notes
- Progress monitoring data

The learner’s role in the portfolio assessment process includes working with the teacher and/or peers to:

- Review over time to determine the products which best demonstrate achievements.
- Determine criteria to use in identifying progress.
- Identify and discuss the progress made.
- Determine future performance goals.

The teacher’s role in the portfolio assessment process is to:

- Observe and guide the student in the self-evaluation process.
- Develop the student’s ability to determine his or her own goals for language use.
- Use the information learned about the student in the portfolio assessment process to select and develop instructional strategies in keeping with the student’s strengths, interests, and needs (Mercer & Mercer, 2001).

Documenting progress will depend largely on the types of information included in the portfolio. The teacher and student may choose to use a progress monitoring procedure (e.g. CBM, rubrics, criterion referenced checklists) to document the student’s progress toward achieving IEP language goals and benchmarks of progress. Most importantly, documented progress should be evidence-based, that is, objective, reliable and valid. Outside reviewers may also be included in the evaluation process and may include the student’s parents, selected IEP team members, or a mentor selected by the student (Rose et al., 2004).
Systematic Observations

The primary focus of these observations is on the “interactions between the individual and the physical, social, and psychological environments” (Thurman & Widerstrom, 1990, p. 191). Two formal protocols that accommodate oral-auditory, sign communication, and provide a rubric for behavioral observations and parent reports are The Ski-HI Language Development Scale (2004) and the adaptation of The MacArthur Communicative Development Inventory (Fenson et al., 1994; see Anderson & Reilly [2002] for ASL normative data).

Summary

Language is complex and encompasses many different aspects which all must be described to determine a student’s language skills and proficiency. No one test can provide all the information needed to accomplish this task. A multi-method approach should be used to obtain as much information as possible regarding the different aspects of a student’s language for educators to determine appropriate programming and instructional strategies.
Reading Assessments

Reading is a fundamental skill that underlies success in all academic areas. Students who experience difficulty reading likely will also experience difficulty in academic subject areas. Reading is a complex behavior that is composed of many skills, thus no single reading test assesses all aspects of reading completely.

Reading assessment should:
• link directly to a widely accepted definition of reading;
• provide information regarding the strengths and needs of each student;
• inform goals for reading instruction (Afflerbach, 2007).

Understanding the principles and relationships of assessment and instruction should enable teachers to select procedures that will assist in identifying and describing students’ achievements and progress in reading.

Issues in Reading Assessment of Learners who are Deaf or Hard of Hearing

Accurate assessment of reading skills is critical for making program decisions, instructional decisions, and determining program effectiveness. When selecting, administering, and interpreting findings of reading assessments, educators of students who are heard of hearing or deaf need to consider several issues including:

• Reading assessment items are generally complex and are not easily adapted to meet the needs of learners who are deaf and hard of hearing (McAnally, et. al., 2007).

• Language proficiency and differences of many deaf and hard of hearing learners and linguistic structure of assessment items may result in response errors that are not necessarily a reflection of reading skills (King & Quigley, 1985).

• Many deaf and hard of hearing learners may be unfamiliar with typical test taking strategies (LaSasso, 1986; LaSasso & Davey, 1983).

• Few standardized tests include deaf and hard of hearing students in their sample populations.

• Yearly growth in reading for students who are deaf is reported at approximately .3 grade level per year. The standard error of measurement on some standardized tests may be about equal to the growth rate, thus resulting in the inability of standardized tests to measure progress or year-to-year growth (King & Quigley, 1985).

• Standardized test scores may be useful in determining placement in a program, but they do not assist teachers in matching a student with appropriate reading materials (Schirmer, 2000).

• Reading assessment results and their interpretation are influenced by several variables including cultural backgrounds, experiences, and communication environment(s) in home and school settings (McAnally, et. al., 2007).
A list of standardized tests that are commonly used in reading assessment of deaf and hard of hearing learners is presented in Table C.
Table C: Reading Assessments Commonly Used with Learners who are Deaf/HH

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Target Age Group</th>
<th>Comparison Group</th>
<th>Focus of Test</th>
<th>Examiner</th>
<th>Time Required</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test of Early Reading Ability-3 (TERA-D/HH)</td>
<td>3:6-8:6</td>
<td>National sample of more than 1,000 D/HH students</td>
<td>Knowledge of alphabet and its functions, awareness of print conventions, ability to construct meaning</td>
<td>Teacher</td>
<td>Administered to individual students</td>
<td>PRO-ED <a href="http://www.proedinc.com">www.proedinc.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Testing time: 15-30 minutes</td>
<td></td>
</tr>
<tr>
<td>Test of Early Reading Ability-3</td>
<td>3:6-8:6</td>
<td>875 students representing national demographics</td>
<td>Mastery of early development of reading skills (see above).</td>
<td>Teacher</td>
<td>Administered to individual students</td>
<td>PRO-ED <a href="http://www.proedinc.com">www.proedinc.com</a></td>
</tr>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Testing time: 15-30 minutes</td>
<td></td>
</tr>
<tr>
<td>Test of Reading Comprehension (TORC-3)</td>
<td>7:0-17:11</td>
<td>1,962 students from 19 states Hearing students and students with disabilities</td>
<td>General and content area vocabulary, syntactic similarities, paragraph reading, sentence sequencing</td>
<td>Teacher</td>
<td>May be given to individuals or group</td>
<td>PRO-ED <a href="http://www.proedinc.com">www.proedinc.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Testing time: 30 minutes</td>
<td></td>
</tr>
<tr>
<td>Gates-MacGinitie Reading Test-4 (GMRT-4)</td>
<td>5 years through adult</td>
<td>Hearing students tested on-level and out-of-level</td>
<td>Each level has a focus appropriate for ages within the level</td>
<td>Teacher</td>
<td>May be hand-scored or machine-scored by publisher</td>
<td>Riverside Publishing (in Chicago) <a href="http://www.gmrt.com">www.gmrt.com</a></td>
</tr>
<tr>
<td>Carolina Picture Vocabulary Test (CPVT)</td>
<td>4:0-11:6</td>
<td>National sample of 767 deaf and hard of hearing students using manual communication</td>
<td>To assess receptive sign vocabulary</td>
<td>Teacher</td>
<td>Administered to individual students</td>
<td>PRO-ED <a href="http://www.proedinc.com">www.proedinc.com</a></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Testing time: 10-15 minutes</td>
<td></td>
</tr>
<tr>
<td>Test Name</td>
<td>Target Age Group</td>
<td>Comparison Group</td>
<td>Focus of Test</td>
<td>Examiner</td>
<td>Time Required</td>
<td>Publisher</td>
</tr>
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<td>----------------------------------------------------</td>
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</tr>
<tr>
<td>Peabody Picture Vocabulary Test-Revised</td>
<td>2-6 years to adult</td>
<td>4,200 hearing children at 2:6 — 18:0 years 828 adults</td>
<td>To assess receptive sign vocabulary</td>
<td>Teacher</td>
<td>Administered to individuals</td>
<td>American Guidance; Publishers’ Building; Circle Pines, MN 55014; <a href="http://www.agsnet.com">www.agsnet.com</a></td>
</tr>
<tr>
<td>Diagnostic Assessments of Reading (DAR)</td>
<td>1st-12th grades</td>
<td></td>
<td>Word recognition, word analysis, oral reading, silent reading comprehension, spelling, and word meaning</td>
<td>Teacher</td>
<td>Individually administered</td>
<td>Riverside Publishing Company; <a href="http://www.riversidepublishing.com">www.riversidepublishing.com</a></td>
</tr>
<tr>
<td>Stanford Diagnostic Reading Test-4 (SDRT-4)</td>
<td>6-18 years</td>
<td>53,000 students</td>
<td>Decoding, vocabulary, comprehension, scanning. Subtests include both formal and informal measures.</td>
<td>Teacher</td>
<td></td>
<td>Harcourt Brace Educational Measurement; San Antonio, TX; <a href="http://harcourtassessment.com">http://harcourtassessment.com</a></td>
</tr>
</tbody>
</table>
Reading Assessments

Informal Approaches

Informal assessments are the most frequent method of evaluating students’ abilities and academic growth (McAnally, 2007, p. 240). King and Quigley (1985) discussed two categories of informal assessments, unobtrusive measures and dynamic assessment integrated with instruction. The categories include:

- Informal protocols
- Informal reading inventories (IRIs)
- Miscue reading inventories (MRIs)
- Checklists
- Retelling
- Anecdotal or running records

Assessments integrated with instruction inform teacher decisions regarding the effectiveness of specific strategies in literacy instruction.

Observations and Anecdotal Records

When using anecdotal records and observations for assessment, the teacher must have a systematic method and habitual practice of recording observations as well as a clear understanding of what is being observed and the goal of the observation. Observation records may include such information as:

- Types of reading material the student selects spontaneously
- Amount of time spent in independent reading
- Word recognition strategies used by the student
- Vocabulary relationships between English words and ASL vocabulary (McAnally et al., 2007).

Anecdotal records and observations of reading skill are maintained throughout the school year and assist in determining the direction of instruction. These observational assessment tools may include:

- Video and audio records
- Running records
- Cumulative product folders
- Daily notes
- Paper-and-pencil tests
A variety of observation checklists are available in professional journals and magazines, in literacy textbooks, and at Web sites (see http://intervetioncentral.org; Harp, 2006).

Retell Procedures

Retellings are a way of assessing and evaluating students’ memories, reactions, and understandings of their reading. Because reading is the construction of meaning resulting from interaction between the text and the reader’s background knowledge, retellings are a powerful way to measure a student’s comprehension (Harp, 2006).

Retellings can be “aided” or “unaided.” In an unaided retelling, the teacher asks the reader to retell everything he or she can remember about the text without any assistance.

In an aided retelling, the teacher asks prepared questions that focus on the key points of story structure or story grammar, e.g., setting, characters, plot, episodes, and theme. The teacher would also ask questions that elicit the reader’s responses to the text, such as:

• Have you ever read a similar story?
• Have you ever been in a similar situation?
• Why do you think that ______ did ______?
• How did you feel when ______ happened?
• What more can you tell me about how the story ended?
• How did you feel about the ending? (Harp, 2006, p. 96)

If the selection is expository, the teacher may ask questions about important facts or concepts that the student should remember. The reader should include:

- main ideas,
- supporting details,
- conclusions, and
- use of a logical sequence

To evaluate the information learned about the reader through retelling, the teacher can use rubrics or checklists which can be found in educational texts and journals as well as in catalogs and bookstores that specialize in teaching materials (Jones & Lenske, 2000; Gillan & Carlile, 1997). Martha French (1999) provides alternative rubric strategies for story retell scoring with learners who are deaf or hard of hearing. See http://intervetioncentral.org for additional suggestions. Teachers may also develop their own rubrics and checklist.

Informal Reading Inventories

Informal reading inventories (IRIs) are popular reading assessments in classrooms with hearing pupils. IRIs are given to individual students and are generally administered by the teacher. They may be developed by teachers or commercially prepared with explicit scoring criteria (See McAnally, 2007, pp. 245-246 for guidelines for developing IRIs).

Most IRIs contain reading passages written in narrative and expository text prepared at sequentially more difficult levels of reading. Students read the passages either silently or orally, answer comprehension questions or retell what they have read in oral, CUED and/or signed language. Data obtained from the IRI can be used to determine:
• The reader’s comprehension and interpretation of the text.
• The reader’s ability to use text-based and reader-based strategies to construct meaning.
• The effects of the reader’s word and syntactic knowledge on text comprehension
• The reader’s ability to relate different codes (e.g., ASL, English) and modes of communication (e.g., Cued Speech, Signed English) to print (McAnally et al., 2007).

Using the information obtained from the IRI may not always be considered valid and reliable.

Summary

A multimethod assessment approach should be used to provide the necessary information regarding all aspects of reading. A multimethod approach may include curriculum-based measures, diagnostic assessments, and teacher reports that have been documented by systematic observation, informal reading inventories. Obtaining and using information provided through a multimethod approach may not yield information that is as accurate and comprehensive as desired, but it may well be the best information that can be obtained with current knowledge and technology.
### Table D: Informal Reading Inventories

<table>
<thead>
<tr>
<th>Name</th>
<th>Target Age Group</th>
<th>Focus of Test</th>
<th>Information Obtained</th>
<th>Who Can Administer</th>
<th>Time</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qualitative Reading Inventory-4 (QRI-4)</td>
<td>K-12</td>
<td>Word identification, comprehension in silent and oral reading, functional reading levels for word identification and comprehension of narrative and expository text, strategic reading</td>
<td>Independent, instructional, and frustration reading levels, reader’s strengths and weaknesses, word identification and comprehension ability, prior knowledge, think-alouds</td>
<td>Teacher</td>
<td>Test individual students; time-consuming</td>
<td>Longman [<a href="http://www.ablongman.com">www.ablongman.com</a>]</td>
</tr>
<tr>
<td>Analytical Reading Inventory-7th edition (ARI)</td>
<td>K-12</td>
<td>Word identification, comprehension of narrative and expository text, fluency, listening level</td>
<td>Word identification level, comprehension level in narrative text and expository text (science and social studies), functional reading levels</td>
<td>Teacher</td>
<td>About one hour per child</td>
<td>Merrill Prentice Hall [<a href="http://www.pearsoned.com">www.pearsoned.com</a>]</td>
</tr>
<tr>
<td>Steiglitz Informal Reading Inventory-3rd edition (SIRI)</td>
<td>Emergent readers — 8th grade</td>
<td>Literature-based programs, instructional level of each learner, word identification, passage comprehension, phonemic awareness</td>
<td>Word identification levels in context and isolation, sight word level, dictated story assessment of emergent readers, recognition of rhyming words, blending of speech sounds, segmenting words, passage comprehension in narrative and expository text (science, social studies, and consumer education), miscue analysis, story retelling</td>
<td>Teacher</td>
<td>Test individual students, time-consuming</td>
<td>Allyn &amp; Bacon [<a href="http://www.ablongman.com">www.ablongman.com</a>]</td>
</tr>
</tbody>
</table>
Early Childhood

The following information is designed to assist service providers in fulfilling their responsibilities under Part C of Individuals with Disabilities Act (IDEA) serving children ages birth to 3. In Minnesota, the Infant and Toddler Intervention system is a partnership between the Departments of Education, Health, and Human Services and families with young children, ages birth to 2 years, 11 months.

Early Intervention services are provided under federal law, which requires that infants and toddlers with a developmental delay and/or certain diagnosed physical conditions and their families have access to services based upon their needs including the following:

1. Meets the criteria for the Deaf and Hard of Hearing disability category, [https://www.revisor.leg.state.mn.us/rules/?id=3525.1331](https://www.revisor.leg.state.mn.us/rules/?id=3525.1331)

OR

2. Meets one of the following criteria for Developmental Delay (a or b):
   a. The child is experiencing a developmental delay that is demonstrated by a score of 1.5 standard deviations or more below the mean, as measured by the appropriate diagnostic measures and procedures, in one or more of the following areas:
      i. Cognitive development;
      ii. Physical development, including vision and hearing;
      iii. Communication development;
      iv. Social or Emotional development;
      v. Adaptive development.

OR

b. The child has a diagnosed physical or mental condition or disorder with a high probability of resulting in a delay, regardless of whether the child has a currently demonstrated need or demonstrated delay. Hearing loss in young children is identified as one of these diagnosed physical conditions for which a child and family may be eligible for early intervention services. A description of the types and degrees of hearing loss included in MN’s Part C eligibility guidelines for young children can be found at: [http://www.health.state.mn.us/divs/fh/mcsbn/ecipelig/hearing.htm](http://www.health.state.mn.us/divs/fh/mcsbn/ecipelig/hearing.htm)
For more in-depth information regarding the guidelines and protocols for eligibility evaluation and on-going assessment across all developmental domains for children receiving services under Part C, please refer to the following:

• http://www.health.state.mn.us
• http://www.education.state.mn.us/MDE/Learning_Support/Special_Education/Birth_to_Age_21_Programs_Services/Early_Childhood_Intervention/index.html

The tools identified in Table E are offered to help service providers complete ongoing assessments of the developmental growth of infants and toddlers who are deaf or hard of hearing. This is not an exhaustive list, rather a guide to meet the diverse needs of young deaf and hard of hearing learners. Teachers and service providers are encouraged to review the technical adequacy of any assessment material or protocol prior to using the outcome data for decision making purposes. It is expected that service providers will use the purpose of the assessment, clinical judgment, family cultural characteristics, the child’s strengths and needs, and consultation with the child’s educational team to determine the appropriate selection of assessment protocols.
### Table E: Assessment Tools Used with D/HH preschoolers

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Who Can Administer</th>
<th>Age Group</th>
<th>Time Required</th>
<th>Norm/Comparison Group</th>
<th>Targeted Skills</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>CASLLS: Cottage Acquisition Scales for Listening, Language and Speech</td>
<td>Teacher</td>
<td>Birth and up</td>
<td>N/A</td>
<td>Criterion-referenced</td>
<td>Set of scales that follow the development of language, listening, cognition, and speech</td>
<td>Sunshine Cottage School for the Deaf 103 Tuleta Drive San Antonio, TX 78212 210-832-8696 <a href="http://www.sunshinecottage.org/">http://www.sunshinecottage.org/</a></td>
</tr>
<tr>
<td>COW: Children’s Outcome Worksheets (2003)</td>
<td>Child, Parents, and Teacher</td>
<td>4:0 to 12:0 years</td>
<td>5-10 minutes</td>
<td></td>
<td>Informal questionnaire that allows child, caregiver, and teacher to specify 5 situations where improved hearing is desired</td>
<td><a href="http://www.oticonusa.com">http://www.oticonusa.com</a></td>
</tr>
<tr>
<td>ELF: Early Listening Function</td>
<td>Parents</td>
<td>Birth to adolescence</td>
<td>N/A</td>
<td></td>
<td>Informal evaluation of listening activities in the child’s typical environments</td>
<td><a href="http://www.phonak.com">http://www.phonak.com</a></td>
</tr>
<tr>
<td>ESP: Early Speech Perception Test (1990)</td>
<td>Teacher</td>
<td>3:0 +</td>
<td>N/A</td>
<td></td>
<td>Measures the effects of hearing aid(s) or cochlear implant(s) in terms of the impact on the child’s speech perception ability</td>
<td>Central Institute for Deaf (CID) 825 South Taylor Avenue St. Louis, MO 63110 314-977-0133 <a href="http://cid.edu">http://cid.edu</a></td>
</tr>
<tr>
<td>FAPI: Functional Auditory Performance Indicators (2004)</td>
<td>Parents and Teacher</td>
<td>Birth to ____</td>
<td>N/A</td>
<td>None</td>
<td>Assesses functional auditory skills</td>
<td><a href="http://www.cde.state.co.us">http://www.cde.state.co.us</a></td>
</tr>
<tr>
<td>IT-MAIS: Infant-Toddler Meaningful Auditory Integration Scale (2003)</td>
<td>Teacher interviews the Parents</td>
<td>Birth to 5:0</td>
<td>N/A</td>
<td></td>
<td>Interview format to assess the child’s spontaneous responses to sound in the environment</td>
<td>Advanced Bionics Corporation 1-800-678-2575 <a href="http://www.bionicear.com">http://www.bionicear.com</a></td>
</tr>
<tr>
<td>Test Name</td>
<td>Who Can Administer</td>
<td>Age Group</td>
<td>Time Required</td>
<td>Norm/Comparison Group</td>
<td>Targeted Skills</td>
<td>Publisher</td>
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</tr>
<tr>
<td>LittEARS Auditory Questionnaire</td>
<td>Parent</td>
<td>Birth to 2</td>
<td>N/A</td>
<td>218 hearing children 0-24 months; currently being evaluated on children with cochlear implants</td>
<td>Parent Questionnaire: Identifies types of auditory behaviors and development</td>
<td><a href="http://www.medel.com">http://www.medel.com</a></td>
</tr>
<tr>
<td>SPEECH / INTELLIGIBILITY</td>
<td></td>
<td></td>
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<tr>
<td>Test Name</td>
<td>Who Can Administer</td>
<td>Age Group</td>
<td>Time Required</td>
<td>Norm/Comparison Group</td>
<td>Targeted Skills</td>
<td>Publisher</td>
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</tr>
<tr>
<td>WASP: Word Associations by Syllable Perception (1999)</td>
<td>Teacher or Parent</td>
<td>N/A</td>
<td></td>
<td></td>
<td>Assess a child’s perception of English phonemes using simple pictures cards and a diagnostic scoring system</td>
<td>Advanced Bionics Customer Care 1-800-829-0026 <a href="http://www.bionicear.com">http://www.bionicear.com</a></td>
</tr>
<tr>
<td>Test Name</td>
<td>Who Can Administer</td>
<td>Age Group</td>
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<td>--------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>MacArthur-Bates Communicative Development Inventories (2004)</td>
<td>Parents and Teachers</td>
<td>8 months to 3:1</td>
<td>Questionnaire/Checklist</td>
<td>1,813 hearing children 8 - 30 months</td>
<td>Asks parents to identify various words that their child wither says or signs, includes vocabulary relating to things in the home, people, action words, description words, pronouns, prepositions, and questions words.</td>
<td>Brookes Publishing Co. <a href="http://www.brookespublishing.com">http://www.brookespublishing.com</a></td>
</tr>
<tr>
<td>Test Name</td>
<td>Who Can Administer</td>
<td>Age Group</td>
<td>Time Required</td>
<td>Norm/Comparison Group</td>
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<td>Publisher</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>TIME: 20 min.</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>(D/HH) 3:0 to 6</td>
<td>30 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Hearing) 3:0 to 6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SKI-HI Language Development Scale (2004)</td>
<td>Teacher and Parent</td>
<td>Birth to 5</td>
<td>Parent Interview/Questionnaire</td>
<td></td>
<td>A parent observation scale listing the receptive and expressive language skills of children birth to five</td>
<td>Hope Publishing, Inc 1856 North 1200 East North Logan, UT 84341</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TIME: 15-45 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TIME: 15-45 minutes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOSS-P: Test of Semantic Skills- Primary (2002)</td>
<td>Teacher</td>
<td>4:0 to 8:11</td>
<td>Administered individually</td>
<td>1,510 students 4:0 - 8:11 years</td>
<td>A receptive and expressive test designed to assess a child's semantic skills</td>
<td>LinguiSystems (800) PRO-IDEA <a href="http://www.linguisystems.com">http://www.linguisystems.com</a></td>
</tr>
<tr>
<td>Test Name</td>
<td>Who Can Administer</td>
<td>Age Group</td>
<td>Time Required</td>
<td>Norm/Comparison Group</td>
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<td>Publisher</td>
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</tr>
</tbody>
</table>

**BASIC CONCEPTS**

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Who Can Administer</th>
<th>Age Group</th>
<th>Time Required</th>
<th>Norm/Comparison Group</th>
<th>Targeted Skills</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDI: Child Development Inventory</td>
<td>Parents</td>
<td>1:3 to 6:0</td>
<td>30-50 minutes</td>
<td>2,000+</td>
<td>Parent Questionnaire :child’s present development</td>
<td>Pearson — AGS Publishing <a href="http://ags.pearsonassessments.com">http://ags.pearsonassessments.com</a></td>
</tr>
<tr>
<td>Test Name</td>
<td>Who Can Administer</td>
<td>Age Group</td>
<td>Time Required</td>
<td>Norm/Comparison Group</td>
<td>Targeted Skills</td>
<td>Publisher</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
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<td>-----------------</td>
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<td>-------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>INSITE Developmental Skills for Multi-disabled Sensory Impaired Children</td>
<td>Teacher and Parents</td>
<td>Birth to 6:0</td>
<td>N/A</td>
<td></td>
<td>Checklist assesses areas of gross motor, fine motor, self-help, cognition, social, emotional, communication, vision, auditory, and tactile development</td>
<td>Hope Publishing, Inc <a href="http://hopepubl.com/">http://hopepubl.com/</a></td>
</tr>
<tr>
<td>ACADEMICS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KRT: Kindergarten Readiness Test</td>
<td>Teacher</td>
<td>Preschool – Kindergarten Individual TIME: 25-30 mins</td>
<td></td>
<td></td>
<td>Intended to assist in determining a student’s readiness for beginning kindergarten “SPANISH VERSION”</td>
<td>Scholastic testing Service, Inc. 1-800-642-6787 <a href="http://ststesting.com/krt.html">http://ststesting.com/krt.html</a></td>
</tr>
<tr>
<td>SOCIAL SKILLS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meadow-Kendal Social Emotional Assessment Inventories for Deaf /HH Students-Preschool</td>
<td>Teacher and Parents</td>
<td>3:0 to 6:11</td>
<td>N/A</td>
<td>800 children with hearing loss</td>
<td>Four subscales (sociable, communicative,: impulsive, dominating : developmental lags: and anxious, compulsive) plus three special items related to HL</td>
<td><a href="http://clerccenter.gallaudet.edu">http://clerccenter.gallaudet.edu</a></td>
</tr>
</tbody>
</table>
Transition Assessment

IDEA and Minnesota law require that transition assessment and planning begin as late as 14 years of age, however, every teacher is encouraged to include transition planning as needed before the age of 14 years. The purpose of Transition Assessment is to develop the foundation for the learner’s progress toward his/her future beyond the secondary school experiences. Guidelines for selection and use of age appropriate transition assessments are available through the Minnesota Secondary Transition Toolkit (2008), Minnesota State Department of Education. Minnesota Statutes and rules related to IEP requirements for transition and behavioral intervention planning are available at http://www.revisor.leg.state.mn.us/rules/?id=3525.2900.

Additional information specific to the strengths, needs and accommodations with learners who are deaf or hard of hearing may be reviewed at http://www.pepnet.org.
Web Resources Related to Assessment

- [http://www.nasdse.org/](http://www.nasdse.org/) (see publications section for various info pieces)
- [http://education.state.mn.us/MDE/Accountability_Programs/Assessment_and_Testing/index](http://education.state.mn.us/MDE/Accountability_Programs/Assessment_and_Testing/index) (MN assessment and testing info)
- [http://education.state.mn.us/MDE/Learning_Support/Special_Education/Categorical_Disability_Information/Deaf_Hard_Hearing/index.html](http://education.state.mn.us/MDE/Learning_Support/Special_Education/Categorical_Disability_Information/Deaf_Hard_Hearing/index.html) (State of MN support for special education in area of deaf and hard of hearing)
- [http://education.state.mn.us/MDE/Learning_Support/Special_Education/Evaluation_PROGRAM_Planning_Supports/S_tatewide_Assessment_for_Students_Disabilities/index.html](http://education.state.mn.us/MDE/Learning_Support/Special_Education/Evaluation_PROGRAM_Planning_Supports/S_tatewide_Assessment_for_Students_Disabilities/index.html) (State of MN support for Alternate Assessments)
- [http://www.nichcy.org/](http://www.nichcy.org/) (Excellent resources on children with disabilities issues including assessment)
- [http://www.nichcy.org/resources/largeassessments.asp](http://www.nichcy.org/resources/largeassessments.asp) (accommodation info from nichcy)
- [http://cehd.umn.edu/NCEO/TopicAreas/Accommodations/Accomtopic.htm](http://cehd.umn.edu/NCEO/TopicAreas/Accommodations/Accomtopic.htm) (more on accommodations from the experts)
- [http://cdd.unm.edu/sde/memos/osep.htm](http://cdd.unm.edu/sde/memos/osep.htm) (Info from the feds on including children with disabilities)
- [http://interventioncentral.org](http://interventioncentral.org) (Information related to curriculum based measurement (CBM) and progress monitoring.
- [http://progressmonitoring.org](http://progressmonitoring.org) (Research based Information for teachers related to progress monitoring and CBM.
- [http://studentprogress.org](http://studentprogress.org) (Research based information for parents and teachers related to progress monitoring practices that are evidence-based and technically sound)
• **http://www.aimsweb.com** AIMSweb is a progress monitoring system based on direct, frequent and continuous student assessment

• **www.fcrr.org** Information on research based practices of reading, reading growth, and reading assessment

• **www.getgotgo.net** Progress monitoring information and tools for young children
APPENDIX A
DEFINITIONS AND EXAMPLES OF SYSTEMATIC OBSERVATION TECHNIQUES

APPROACHES TO DATA RECORDING:

FREQUENCY RECORDING:
The number of times, or how often a behavior occurs

EXAMPLE #1:
Recorder: Susan Jacobs
Student: Tyler Hernandez (Hard of hearing student, auditory/oral)
Subject: Language arts class, grade 6, Lincoln Middle School
Date: 9/11/08
Time: 8:40 to 9:25
Behaviors: Turning to watch other classmates offering oral responses/comments

<table>
<thead>
<tr>
<th>Behavior</th>
<th>Watching</th>
<th>Not Watching</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sally</td>
<td>//</td>
<td></td>
</tr>
<tr>
<td>John</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>Michael</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>Jackson</td>
<td>///</td>
<td></td>
</tr>
<tr>
<td>Jacob</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>Melinda</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>Tyler</td>
<td>//</td>
<td>///</td>
</tr>
</tbody>
</table>

Interpretation of Data:
Tyler turned to watch his peers offering oral responses 2/9 times or 22% of the time.

EXAMPLE #2:
Recorder: Tom Smith
Student: Alison Fritz (moderate/severe hearing loss/auditory-oral/first integrated classroom experience)
Place: Happy Hollow Kindergarten Center
Behaviors: Standing up and walking away from teacher-directed instruction

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/4/08</td>
<td>9:15 AM - 11 AM</td>
<td>//////////</td>
</tr>
<tr>
<td>3/5/08</td>
<td>9:15 AM - 11 AM</td>
<td>///</td>
</tr>
<tr>
<td>3/6/08</td>
<td>9:15 AM - 11 AM</td>
<td>/////////////</td>
</tr>
<tr>
<td>3/7/08</td>
<td>9:15 AM - 11 AM</td>
<td>///</td>
</tr>
<tr>
<td>3/9/08</td>
<td>9:15 AM - 11 AM</td>
<td>///</td>
</tr>
</tbody>
</table>
APPENDIX A
DEFINITIONS AND EXAMPLES OF SYSTEMATIC OBSERVATION TECHNIQUES (continued)

Interpretation of Data:
During the week of March 4 through March 9, from 9:15 to 11AM, Alison stood up and walked away from the instructional activity 26 times. This was, on the average 24 more times than her other kindergarten peers.

APPROACHES TO DATA RECORDING:

DURATION RECORDING:
The total amount of time a student spends engaging in a specified behavior

EXAMPLE:
Recorder: Melinda Polienzki
Student: Marianne McGrath, utilizes interpreter fulltime
Location: 8th grade Civics Class
Date: 10/12/08
Behavior: Attending to educational interpreter during a lecture

Civics Class:
Behavior start-end Duration
2:00 to 2:45
2:05 2:08 3 minutes
2:10 2:12 2 minutes
2:16 2:21 5 minutes
2:25 2:29 4 minutes
2:34 2:35 1 minute
2:40 2:45 5 minutes

Total Class Period: 45 minutes; Total duration: 20 minutes

Percentage: 20/45 = 44% attending

Interpretation of Data:
During Marianne’s 45-minute civics class on October 12, she attended to the interpreter 44% of the time. The longest interval of attending was 5 minutes.
APPENDIX A
DEFINITIONS AND EXAMPLES OF SYSTEMATIC OBSERVATION TECHNIQUES (continued)

Approaches to Data Recording:

LATENCY RECORDING:
The amount of time that elapses between a specified event and the expected behavioral response.

EXAMPLE
Recorder: Tracy Toronto
Student: William Lane
Location: Special Education Resource Room
Behavior: Teacher gives directions and student follows the instruction

<table>
<thead>
<tr>
<th>Date</th>
<th>Start time</th>
<th>Response time</th>
<th>Elapsed time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2/10/08</td>
<td>8:30</td>
<td>8:36</td>
<td>6 minutes</td>
</tr>
<tr>
<td>2/10/08</td>
<td>12:05</td>
<td>12:07</td>
<td>2 minutes</td>
</tr>
<tr>
<td>2/11/08</td>
<td>8:30</td>
<td>8:35</td>
<td>5 minutes</td>
</tr>
<tr>
<td>2/11/08</td>
<td>12:05</td>
<td>12:12</td>
<td>7 minutes</td>
</tr>
<tr>
<td>2/13/08</td>
<td>8:30</td>
<td>8:40</td>
<td>10 minutes</td>
</tr>
<tr>
<td>2/13/08</td>
<td>12:05</td>
<td>12:00</td>
<td>3 minutes</td>
</tr>
</tbody>
</table>

Average AM latency: 7 minutes
Average PM latency: 4 minutes

Interpretation of data:

In the morning it takes William 7 minutes to follow instruction after the teacher gives a direction.
In the afternoon it takes William 4 minutes to follow instruction after the teacher gives a direction.
APPENDIX A
DEFINITIONS AND EXAMPLES OF SYSTEMATIC OBSERVATION TECHNIQUES (continued)

Methods of Data Collection
Each of the methods described requires that the observer use a stopwatch and/or an electronic or formatted paper and pencil recording / tally sheet. Observers most often design their own forms to fit the situation being observed.

CONTINUOUS RECORDING:
Recording the behavior each and every time it occurs for a given time period.

Used for frequency or the duration of a response, e.g. the number of times the student throws an object, or the number of minutes that the student is off-task during a class period

INTERVAL RECORDING:
Recording the absence or presence of a pre-specified behavior within a series of time intervals.

Use when the behavior of concern occurs with such high frequency that continuous recording would be difficult to implement, e.g. the student speaking out of turn at any time within a 2-minute interval.

TIME SAMPLING:
The student is observed at the end of fixed intervals e.g. 10 sec., 1 min.. The observer marks whether or not the behavior has occurred, e.g. whether the child is off task at the end of a 1 minute interval

It does not require constant observation of a student, but it is a less accurate estimate than interval recording.
## APPENDIX B

### Observational Record of Behavior

A. How does the learner who is D/HH participate in the general education setting when compared to his/her peers?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does the learner participate in class activities at a rate similar to his/her peers?</td>
<td></td>
<td></td>
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<tr>
<td>2. Does the learner use strategies to facilitate access and participation?</td>
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</tr>
<tr>
<td>3. Does the learner advocate for his/her needs?</td>
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<tr>
<td>4. Does the learner respond to directions?</td>
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<tr>
<td>5. Does the learner use strategies or accommodations to seek assistance?</td>
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</tbody>
</table>
APPENDIX B (continued)

Observational Record of Behavior

B. How does the learner who is D/HH access information?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<tr>
<td>2.</td>
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<td>3.</td>
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<tr>
<td>4.</td>
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</tbody>
</table>

1. Does the learner respond to directions given by the teacher?

2. Does the learner use accommodations to access auditory information?

3. Does the learner contribute relevant comments during a discussion?

4. Does the learner respond to information or comments offered by his/her peers?
### C. What student and teacher factors influence the learner’s academic progress?

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Is the language of the lesson accessible to the learner?</td>
<td></td>
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<tr>
<td>2. Does the learner have strategies for requesting clarification?</td>
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<tr>
<td>3. Does the learner communicate directly with the teacher?</td>
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<tr>
<td>4. Does the teacher communicate directly with the student?</td>
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<tr>
<td>5. Does the teacher repeat or rephrase information?</td>
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</tbody>
</table>
### APPENDIX B (continued)

**Observational Record of Behavior**

**C. (continued) What student and teacher factors influence the learner’s academic progress?**

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6. Does the teacher check for the learner’s understanding?</td>
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<tr>
<td>7. Does the teacher ensure that the learner can see and hear optimally?</td>
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<tr>
<td>8. Does the teacher use visual instructional aids?</td>
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<tr>
<td>9. Does the teacher have adequate information regarding the role of the educational interpreter/transliterater/notetaker?</td>
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</tbody>
</table>
### Observational Record of Behavior

**D. What setting and acoustical conditions influence the learner’s understanding?**

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Is the learner using the recommended amplification system?</td>
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<tr>
<td>2. Does the learner advocate for his/her amplification needs?</td>
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<tr>
<td>3. Is the amplification used appropriately during group activities, seatwork, and during class discussions?</td>
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<tr>
<td>4. Is the noise level of the classroom within functional listening levels for the learner?</td>
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<tr>
<td>5. Are instructional visuals and accessible educational technology used during the lesson?</td>
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</tbody>
</table>
### Observational Record of Behavior

**E. How does the learner who is D/HH respond to his/her peers?**

<table>
<thead>
<tr>
<th></th>
<th>Yes</th>
<th>No</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Does the learner have direct communication opportunities with his/her peers?</td>
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<tr>
<td>2. Does the learner engage in appropriate social conversations?</td>
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<tr>
<td>3. Does the learner use alternative strategies when peers don’t understand him/her?</td>
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<tr>
<td>4. Do the learner’s peers use alternative strategies to communicate with the learner?</td>
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</tbody>
</table>
APPENDIX C

GUIDELINES FOR DETERMINING THE NEED FOR AN EDUCATIONAL INTERPRETER/TRANSLITERATOR

Classroom Observation

Access to detailed and general information from the teacher. Is the learner able to correctly retell detailed/ general information from the teacher?

- Access to detailed and general information from peers
- Self-advocacy skills
- Attention to visual information (e.g. teacher writing on the board)

Learning Environment Considerations

- Classroom configuration
- Instructional pace
- Instructional methods (e.g., small cooperative groups, lecture, etc.)
- Instructional styles (e.g., visual resources: overhead, use of boards, media)
- School-wide communication (e.g. use of visual, audio technology)
- Lighting, amount of glare from windows

Academic and Language Considerations

- Language skills of the learner
- Receptive and expressive language skills of the learner in the target communication mode/language to be used in the general education setting by the interpreter/transliterator
- Academic progress
APPENDIX C

GUIDELINES FOR DETERMINING THE NEED FOR AN EDUCATIONAL INTERPRETER/TRANSLITERATOR (continued)

Personal/Physical Indicators

- Headaches
- Visual difficulties (e.g. eyestrain, watering, acuity)
- Excessive fatigue

Social Emotional Considerations

- Interaction with peers
- Access to social communication
- Age-appropriate social skills (e.g., greetings, questioning behaviors)

Other Factors

- Parent/student input
- Co-occurring disabilities
APPENDIX D

IEP ACCOMODATIONS

The special education team should consider the following IEP Adaptations to increase a student’s access to general and special education educational curriculum in a variety of educational environments:

Amplification:
- Personal hearing device (hearing aid, cochlear implant, bone conduction aid).
- FM amplification.
- Classroom amplification system.
- Inservice for teachers regarding hearing loss, amplification, and classroom implications of hearing loss.
- Hearing aid monitoring—including inservice for monitoring staff and monitoring equipment.

Assistive Devices:
- Access to school media and technology (describe the device to be used and the purpose).

Communication Accommodations:
- Preferential seating (describe appropriate seating).
- Evaluation of classroom acoustic environment.
- Encourage noise reduction, such as: closing the classroom door when there is noise in the hallway, reducing noise made by heating and cooling systems, keeping order in the classroom, and encouraging students to respond with voices loud enough to be heard clearly.
- Clearly enunciate speech. Allow extra time for processing information.
- Repeat or rephrase auditory information when necessary.
- Frequently check for understanding.
- Educational interpreter (ASL, signed English, cued speech, oral—describe role of the educational interpreter).

Instructional Accommodations:
- Use of visual supplements (overhead, chalkboard, charts, vocabulary lists, lecture outlines, homework in written form).
- Captioning or scripts for television, videos, movies.
- Buddy system for notes, extra explanations/direction.
- Down time/break from listening.
- Extra time to complete assignment.
- Step-by-step directions.
- Note taker.
Curricular Modifications:

- Modify assignments
- Pre-teaching/review of vocabulary and concepts.
- Provide supplemental materials to reinforce concepts.
- Provide extra practice
- Alternative curriculum

Evaluation Modifications:

- Reduce quantity of tests.
- Use alternative tests.
- Provide reading assistance with tests;
- Allow extra time on tests.
APPENDIX E

QUESTIONS FOR CONDUCTING A STUDENT INTERVIEW

1. What do you say to people who ask about your hearing loss?

2. How do you feel about asking classmates for repetition or clarification?

3. How do you ask your teachers for clarification? (Do you go up to their desk and ask privately or do you raise your hand and ask questions in class?)

4. Do you seek the correct seat placement? Does the teacher remind you to sit in the best place?

5. Do students tease you? If yes, is the teasing related to your hearing loss?

6. Do you ever feel left out? If so, is it because of your hearing loss?

7. What are the hardest places for you to hear your teachers/peers?

8. What do you like best about school?

9. What do you like least about school?

10. Does anything bother you about your hearing aid or assistive listening device used in school?

From the Assistive Listening Technology Protocol, January 2006; Rum River Special Education Cooperative & St. Croix River Education District.
The purpose of the Evaluation Report is to summarize the student’s evaluation for special education eligibility and related services and his/her educational needs. This template provides a SAMPLE framework for best practice reports from D/HH teachers.

REASON FOR INITIAL EVALUATION:

(STUDENT’s NAME) was evaluated to determine if (HE/SHE) is eligible for special education services from a teacher of the deaf/hard of hearing and/or related professionals (e.g. educational audiologist). The special education team determined a need for evaluation in the following areas: (Identify appropriate areas: Intellectual/Cognitive Functioning, Academic Performance, Communication, Motor Skills/Physical Development, Sensory-Hearing/Vision, Emotional Social & Behavioral Development, and Transition).

REASON FOR REEVALUATION:

(STUDENT) was reevaluated to determine if (HE/SHE) continues to be eligible for special education services from a teacher of the deaf/hard of hearing and educational audiologist. Current Reevaluation data is necessary to ensure educational programming continues to align with special education needs. The special education team determined evaluation would be completed in the following areas: (XXX)

INFORMATION PROVIDED BY PARENT/GUARDIAN:

Parent/Guardian Report of Student Strengths and Educational Concerns:

Due Process requires that parent input be included in the evaluation. Consider the following items when reporting parent information:

- Student strengths
- Interventions that are working well at school.
- Academic concerns.
- Homework/organizational concerns.
- Social/Emotional concerns.
- Communication concerns.
- Use of hearing related assistive technology (captions, video relay, text messaging devices, alarms, etc.).

BACKGROUND INFORMATION/EDUCATIONAL HISTORY:

Background information is required, but these "fields" are optional. If someone else is completing the background information, D/HH teachers need to review their information and add any relevant information related to hearing loss and D/HH services.

- School Enrollment History
• ELL Status/History
• State and District Test Results
• Further File Review

EDUCATIONALLY RELEVANT MEDICAL INFORMATION:
• Audiological Background/File Review:
• Health Background/Vision Status

LIST OF CURRENT TESTS EVALUATION PROCEDURES:

Note of special adaptations in procedure based upon language, cultural, economic, or environmental background

Note of special adaptations in procedures based upon physical or sensory status

Formal and informal evaluation procedures administered:
Sensory Area (Examples)
• Pure Tone Testing/Tympanometry
• Speech Recognition Testing in Quiet and in Noise
• Test of Auditory Comprehension (TAC)
• Self Advocacy Skills Checklist/Student Interview

Academic Area: (Examples)
• Test of Early Reading Ability-Second Edition (TERA-2)
• Curriculum Based Measurements (CBM)
• Teacher Interview(s)
• Classroom Observation with Comprehension Check

Communication: (Examples)
• Test of Auditory Comprehension of Language-Revised (TACL-R)
• Communication and Pragmatic Skills Informal Checklist

Social/Emotional:
• Meadow-Kendall

Transition:
• Reading Free Vocational Interest Inventory

Current Evaluation Results:
The following test results are based on norms of students with normal hearing, unless specifically noted in this report.
At the time of testing, STUDENT’s chronological age was XXXX years, XXXX months.

Standard Scores and Percentile Ranks:

(Review test manual for guidelines)
Current Level of Academic Performance: Completed by NAME, TITLE, on DATE, at LOCATION.

Research shows that students who have hearing loss may have difficulty in the areas of vocabulary development, reading, spelling, written language, listening, and language arts. The following tests were administered to determine potential educational implications of STUDENT’s hearing loss to academic performance.

Interpretations of the Test identified above:
Provide interpretation of score(s) and D/HH implications.

Classroom Observation
Information from objective classroom observations may be used as rationale for elements of the D/HH criterion and for the identification of educational needs.

- Seating.
- Participation in general education curriculum compared to peers.
- Self-advocacy skills.
- Benefit from an interpreter/transliterater

Classroom Performance/Teacher Interviews
Consider the following areas when reporting in this section: academics, attention, communication, classroom participation, and social behavior. Some examples:

- Verbal comments.
- Written interviews
- Teacher provided informal evaluation
- Electronic progress reports

Student Interview
Summarize student’s self-evaluation of academic and social-emotional and advocacy strengths and concerns. This is particularly important in the transition IEP.

Conclusion of Academic Status
Included in this area are the student’s “Present Level of Performance” and, therefore, should be included as the Academic PLEP when writing the IEP. Consider the following items in this Academic Conclusion:

- Overall summary of current academic results.
- How student is progressing in the general curriculum.
- Impact of scores on statewide/district tests.
- Progress on class assignments and homework
- Impact of any academic deficits on attention and participation.
- Document how hearing loss may influence the student’s academic progress in the general curriculum.
Conclusion of Sensory Status:
Conclusions in this area are the students "Present Level of Performance" and, therefore, should be included as the Sensory PLEP when writing the IEP. Consider the following items as examples in this Sensory Conclusion
- Speech recognition scores significantly different in quiet and in noise.
- Attentiveness in learning environments.
- Any OUTSIDE recommendations for medical follow-up should be carefully worded to eliminate local district responsibility, such as: "Based on current educational audiology test results, school health records, and medical background information, STUDENT'S parents are encouraged to independently pursue further medical evaluation (LIST SPECIFIC RECOMMENDATION, SUCH AS ENT EVALUATION IF STUDENT DOESN'T HAVE CURRENT (OR ANY) MEDICAL INFORMATION) outside of the school setting."

Communication
Completed by Name, Title, on Date, at Location.

Conclusions of Communication Status:
Conclusions in this area must provide rationale for D/HH criterion and educational needs: "Present Level of Performance" should be included as the Communication PLEP when writing the IEP.

Transition Skills:
Evaluation completed by PERSON, TITLE, on DATE, at LOCATION.
STUDENT completed the student transition interview with the following information:
- Employment:
- Post Secondary Education & Training:
- Community Participation
- Home Living/Daily Living Skills:

Conclusions of Transition Area:
[Provide interpretation of tests/interviews and D/HH implications. Conclusions in this area must provide rationale for D/HH Criterion and educational needs. Conclusions in this area are the student's "Present Level of Performance" and, therefore, should be included as the Transition PLEP when writing the IEP.]

Special Education Needs:
[Needs must be written with the following language: develop, increase, maintain, decrease.]

Examples:
- STUDENT needs to develop/increase/maintain HIS/HER independent usage of hearing-related self-advocacy skills.
- STUDENT needs to increase/maintain HIS/HER on-task behavior and work completion, etc.

The special education team should consider the following IEP Adaptations to increase students’ access to general and special education educational curriculum in a variety of educational environments (the following are examples of such):
Amplification:
- Personal hearing device (hearing aid, cochlear implant, bone conduction aid).
- Inservice for teachers regarding amplification, and classroom implications of hearing loss.

Assistive Devices:
- Access to school media and technology (e.g., video relay services).

Communication Accommodations:
- Preferential seating (describe appropriate seating).
- Educational interpreter (ASL, signed English, cued speech, oral—describe role).

Instructional Accommodations:
- Captioning or scripts for television, videos, movies.
- Buddy system for notes and directions

Curricular Modifications:
- Provide supplemental materials to reinforce concepts
- Alternative curriculum

Evaluation Modifications:
- Provide reading assistance with tests; Allow extra time on tests.
- Use alternative tests

INTERPRETATION OF EVALUATION RESULTS:

(A) The student’s current audiometric profile, HE/SHE sustains a (specifically describe hearing loss with type and qualifying pure tone averages/thresholds, dates for conductive loss, etc.), which meets criterion item(s) A 1, 2, 3, 4 (Choose appropriate number(s)).

(B) Based on clinical and/or educational audiologist audiograms and professional recommendation, STUDENT requires amplification to increase HIS/HER auditory access to spoken and environmental information, which meets criterion item B1.

Based on current achievement test data (see above test results) STUDENT demonstrates an achievement deficit in the area(s) of: (list area(s) and scores), which meets criterion item B2.

(C) Based on systematic observation of typical classroom interaction and licensed teacher reports, STUDENT’S hearing loss negatively impacts HIS/HER independent and consistent classroom interaction in educational settings. This is demonstrated through (list examples). This meets criterion item C1.
Current evaluation data confirms STUDENT uses (list visual communication system) to access spoken/environmental auditory information and general curriculum, which meets criteria item C2.

(D) Based on documented systematic observation/licensed teacher reports and results of a standardized scale of social skill development (see above results), STUDENT’s age-appropriate social functioning is below average when compared to same-aged peers. This meets criteria items D1 and D2.

Statement of Eligibility:

Based on the current evaluation results, the team has determined STUDENT is eligible/is not eligible for special education services under the Deaf/Hard of Hearing category.

Based on the current evaluation results, the team has determined STUDENT continues to be eligible/does not continue to be eligible for special education services under the Deaf/Hard of Hearing category.
Glossary

The following are sample terms quoted from: //www.questionmark.com/us/glossary.aspx Please refer to the website for additional terms.

acculturation - The process whereby individuals from one culture adopt the characteristics and values of another culture with which they have come in contact.

adaptive testing – A sequential form of individual testing in which successive items, or sets of items, in the test are chosen based primarily on their psychometric properties and content, in relation to the test taker’s responses to previous items

intelligence test - A psychological or educational test designed to measure intellectual processes in accord with some evidence-based theory of intelligence

confidence interval - An interval between two values on a score scale within which, with specified probability, a score or parameter of interest lies

criterion-referenced test- A test that allows its users to make score interpretations in relation to a functional performance level, as distinguished from those interpretations that are made in relation to the performance of others

norms - Statistics or tabular data that summarize the distribution of test performance for one or more specified groups, such as participants of various ages or grades. Norms are usually designed to represent some larger population, such as participants throughout the country

percentile - The score on a test below which a given percentage of scores fall

performance assessments- Product- and behavior-based measurements based on settings designed to emulate real-life contexts or conditions in which specific knowledge or skills are actually applied.

test modification — Changes made in the content and/or administration procedure of a test in order to accommodate participants who are unable to take the original test under standard test conditions.
References


