ABSTRACT

Described is a diagnostic-prescriptive model of teacher observation of learning disabled students. It is expected that through observation, teachers should be able to answer in seven areas, including the existence of a real learning disability, the student's functioning level in reading, arithmetic, and writing; the student's learning style; the student's motivation and interfering behavior with the student's academic function.
Observational Techniques For Use By Special Educators
In Assessing Students With Learning Disabilities

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Abstract

The Diagnostic-Prescriptive model to be described is an eclectic approach which combines the best strategies from developmental, neurosensory, and learning theories. It relies primarily on the observations that a teacher makes of a student. The model provides the teacher with the tools and skills necessary to identify by observation visual, auditory and behavioral disabilities manifested by students. It further provides a reading, writing, math, and language inventory that enables a teacher to identify a student's present level of progress in the hierarchical development of the aforementioned skills. Skills are provided whereby the teacher can assess what learning modality (visual, auditory, haptic) is best suited for a student. The identification of interest and reinforcement preferences is accomplished by the use of observable techniques and student reporting inventories. In lieu of the above assessment, specific teacher-created ideas are matched to the assessment for the correction of the educational deficits and for the most efficient method of learning on the part of the student.

This model is a "nuts and bolts" approach which is based on sound principles of learning as evidenced by current research literature and the experiences of competent teachers. It was designed by the writer in conjunction with successful teachers who could produce growth in academic achievement and desirable pupil behavior.
Observation as a Method of Diagnosis

There are certain basic minimum diagnostic-prescriptive competencies that every teacher of the learning disabled should have. These competencies do not necessarily require training of a sophisticated nature. Most of the academic deficits students have can be spotted by a teacher who has been trained with the proper observational skills. For example, if a teacher sees a student consistently reversing b's and d's; p's and q's, etc., the teacher knows that the student has a visual discrimination or visual memory problem. If the teacher can identify the problem, then he can seek answers to the problem.

In the past, teachers have looked to standardized tests to identify visual and auditory and information processing deficits. They have put their faith in test scores. This resulted in a hit-and-miss type of diagnosis. In the real world of the school, the things that tests measure, and what a child does in school, often do not match up. For example, on a popular-standardized auditory memory subtest, the test requires the student to remember numbers spoken to him. How often are students in school asked to repeat numbers back to a teacher? Furthermore, this particular subtest deals with immediate or short term auditory memory. What about the student's memory for auditory symbols a day or week from now? The point is, teachers need to be able to observe deficits as they occur in an academic situations. If they use test scores to identify deficits, these deficits should be verified by observation. Many times a test score will show a deficit when a deficit does not exist. In such instances a deficit is the result of the student not understanding directions.

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For example, there is a popular subtest that requests a student to draw a line from the mouse to a cookie without lifting his pencil and without touching the sides of the tunnel. I have seen many teachers and diagnosticians prescribe eye-hand coordination exercises based on a low score in this subtest. Upon rechecking these students myself, I found that many of them made low scores because they did not follow the auditory directions as given. When they began the task, they forgot and lifted their pencils, or forgot that they weren't supposed to touch the sides. Some of them would draw a line beyond the cookie. All of these errors lowered the students score in eye-hand coordination. When I readministered the test, making sure they understood the directions, the "deficit" in eye-hand coordination did not appear. If I had placed blind faith in the test score, and not have observed the student's performance in school, I may have agreed with the diagnosis of an eye-hand coordination deficit.

I would like to present a model based on observation that is predicated on seven types of fundamental questions that every teacher working with Learning Disabled children should be able to answer.

The first question is: Does a real learning disability exist? Today, there is a trend to label every student who is failing in school as learning disabled. As a result, learning disability classes have become a dumping ground for every student who is failing or a behavior problem. Now if one really wants to get a student in a learning disabilities class, all one has to do is find what the criteria are for placement in such a class and then select tests and conditions that will give the student the necessary profile to get into the class. Almost every student who is failing in school will show some type of problem or uneven development in information processing.
skills. Furthermore, different visual and auditory skills develop unevenly and at different rates for different children. So when you start using a standardized test to look at these skills, you will, of course, see the student's relative position on certain skills in reference to a group's performance. The point is, everyone has varying styles of learning. Too often varying styles of learning are interpreted as learning disabilities. Here is what you can do informally with your observation skills before you jump to conclusions that the student is learning disabled.

First, select a novel task in reading, arithmetic, and writing. Teach the student a lesson. Note how the student learns and check to see if he retains the information. Can he learn? Next, look at the student's past performance in school, look at his workbooks, report cards, etc. Do auditory, visual, motor, information processing deficits appear? Are there suggestions of hyperactivity, impulsivity, etc? Was there ever a time when the student functioned well academically? If so, what happened to cause the student to start failing? Did the student miss significant areas of instruction (e.g., phonics) as a result of illness? Did something traumatic (e.g., death of a parent) happen in the student's life? These are significant variables that should be considered before a label of learning disabilities is attached to a student.

So far, we have considered the student's present academic performance, his past academic performance, and gaps in instruction which may or may not be affecting his present academic functioning. The teacher should now look at the student's intelligence test scores on an individual intelligence test and note the predicted or expected level of achievement in reading, arithmetic, and spelling to see if there is a discrepancy between where the student is
functioning on a standarized achievement test and where he should be functioning. (Remember the student's past instruction is a critical variable to consider when doing this. One cannot expect a student to perform what he hasn't been taught.)

If the teacher does not have access to such expectancy tables, she can use the formulas of Harris, or Bond and Tinker to estimate a reading expectancy.

Now if you have observed or noted, via records, the student's past academic performance, his present academic performance, and his academic achievement is what would be expected, based on his intelligence quotient, then you need to reconsider if this student belongs in class for the learning disabled. If the student is functioning academically up to his predicted level and his past and present performance confirm this rate of functioning, then it is possible that he is functioning at his best level. Pushing the student further might create undesirable side effects. On the other hand, if the student shows potential and has perceptual or informative processing problems or specific behavioral problems (hyperactivity) then placement in a Learning Disabilities class is warranted. This factor should be documented by observation.

Parents often have unrealistic expectations of these children. By permitting the parents to observe their child's performance on a novel academic task, and pointing out the child's achievement in relation to his assessed academic potential, parents become more realistic in their expectations of their children.

The next question a teacher should be able to answer is: Where is the
student functioning in reading, arithmetic and writing? Often teachers assume that a student is functioning at a particular grade level in reading and arithmetic because he is in or has been in that grade or has scored at that grade level on an achievement test. Grade scores on traditional achievement tests rarely match the grade level marked on reading and math books.

A teacher's observation of where a student is functioning on the hierarchical sequence of reading and math skills is critical to good teaching. I have seen teachers teaching a child to syllabize words when the student did not know the sounds of the letters in the alphabet. Some teachers expect students to draw inferences from reading material when the student cannot comprehend the details or main ideas of a story. Teachers must first know a hierarchical sequence of skills in reading and then by observation, pinpoint where the student is functioning. This can be done by giving a student selected tasks from a sequence of reading skills and then observing the student's performance on the skills.

The same observational concept applies to the area of arithmetic. There is a definite hierarchical sequence to math skills. By observing what the student can do and cannot do along the basic sequence computational skills, teachers can pinpoint when a student is functioning. Furthermore, by observing the student's past and present work the teacher can spot patterns or errors. For example, one particular teacher I know complained that a student could not do multiplication problems involving two digits in the multiplier. Her

* Hierarchical Observational Inventories in Reading, Arithmetic, and Writing are available from Super Systems, P.O. Box 16299, Jacksonville, Florida 32216
approach was to give him many exercises with such problems. If she would
have observed the student's pattern of errors, she would have noted that
the student's errors were not due to an algorithm or multiplication error
but due to errors of addition in the partial products. The student consis-
tently erred when he had to add 6+9, 9+6, 7+6, and 6+7. Teachers
need to observe patterns of errors in a student's past performance and
present performance. By looking for patterns of errors, the teacher can
make a more refined diagnosis.

The third question a teacher should be able to answer is: What audi-
tory and visual deficits are interfering or hindering the learning processes?
Teachers should be able to spot auditory and visual deficits in a student's
daily school work. If the teacher sees a student manifesting a deficit
consistently she can request formal testing to either confirm or refute her
tentative diagnosis. In most cases, if the deficit appears in reading, it
will appear in writing and arithmetic. For example, if a student reverses
b's and d's in reading, he will often reverse 6's and 9's in arithmetic.
Formal testing is not always necessary. In many cases such simple problems
can be remediated without further testing or referral.

The fourth question the teacher should be able to answer is: How does
the student learn best? By systematically observing a student, a teacher
should be able to note how the student best takes in information and how
he best expresses information. A teacher could try different approaches
to the teaching of reading words and then observe and note how the student
learns best. Simple behavior charting would be a valuable asset in this
respect. Don't forget to ask the child how he thinks he learns best. Often,
we overlook this valuable source of information.
The fifth question a teacher should be able to answer is: Are there any specific aptitudes that can be used to help this student learn more efficiently? Some students have a good aptitude for memory but poor aptitudes for conceptualization. Other students will have good aptitudes for conceptualization but a poor aptitude for memory. Once the teacher observes a particular aptitude that is strong in a student, she should capitalize on this strength in formal instruction. On the other hand, the teacher can try to strengthen weak aptitudes.

The sixth question the teacher should be able to answer is: What will motivate the student? Generally students who have been failing in school are turned off about school and school tasks. An observant teacher should note what the student's interests are and try to employ them in the student's lessons.

The teacher should also note by observation what a student finds reinforcing—what he seems to like to do. By using the Premack Principle, the teacher can reinforce a low priority behavior (specific academic tasks) with a high priority behavior (what the student likes to do.)

The seventh question the teacher should be able to answer is: What behavior or behaviors are interfering with the student's academic functioning in school? Terms such as hyperactivity and impulsivity are too general in terms of describing behavior. The particular behavior that is a problem should be pinpointed and described in such a way that anyone reading or hearing the description would be able to mimic the behavior precisely.

Once a behavior has been delineated, the teacher can count its occurrence over a specified period of time for several days at the same time and place each day to obtain a baseline or pretreatment rate. Treatment
can then be introduced and compared to baseline data to see if there is an improvement. By using this approach no assumptions are made about the behavior one is dealing with, the treatment, and the results of the treatment, because all are observable and measurable.

Once a teacher can answer the above basic seven questions, she can neatly arrange her findings into a comprehensive educational prescription for the student. The beautiful part about this approach is that the teacher did not have to wait six weeks to a year for someone to come in and test the student. The teacher's observational diagnosis is based on school tasks, whereas a diagnosis by an outsider using standardized instruments is only indirectly related to school tasks. Furthermore, by answering the above seven questions and programming the student in the line with the findings, it is highly probable that the student will make significant progress.

Before referring a student and risking the possibility of a permanent inappropriate label, I would like to encourage you to at least attempt this approach.

In closing, I would suggest that teachers learn what to look for, then look for it, and trust their observations.