



Problems with working memory?

Attention issues?

Visual and auditory processing?

Vocabulary Weakness?

The HEDway computer lab offers programs for students that provide a mental workout for an hour a day for 24 days. Students are given Gates-MacGinitie Reading pre-tests at the beginning of the program and then post-tests at the completion of the 24 hours of exercises to see how much growth occurs. Below are the final results of the pre & post testing for our first session held this past summer 2010. The final column shows the amount of change in grade level from the pre to the post test for each student. The next page below describes the programs used. The final page is a HEDway program registration form.

	PRETEST SCORES		POSTTEST SCORES		GAIN / LOSS of years in grade level
	VOCAB	COMP	VOCAB	COMP	
student #1	40	47	41	47	PHS in both
student #2	30	36	35	37	+3.3 +.4
student #3	41	32	45	37	+3.9 +1.8
student #4	36	41	39	42	PHS in both
student #5	24	27	29	34	+ .9 +1.5
student #6	24	24	25	30	+ .7 +1.5
student #7	20	24	26	21	+1.4 -1
student #8	18	21	19	25	+ .1 +.9
student #9	26	42	33	35	+3.5 -2.6
student #10	41	46	42	47	PHS in both
student #11	31	28	36	35	+2.5 +.9
student #12	18	18	27	32	+ .8 +1.3
student #13	26	37	23	35	-1 -1.8
student #14	18	24	23	35	+1.3 +3.2
student #15	26	28	30	38	+1.8 +3.7
student #16	43	39	39	44	PHS +1.9



Basic H.E.D.WAY Program

HomeLink offers a program for students who would like to prepare themselves to work at a new and better level with vocabulary, memory, attention, and listening skills. Our computer lab is equipped with software programs designed to exercise the student's thinking skills so they can become sharper and clearer in their processing. Students will be tested before and after the 24 hours of exercises to determine improvement levels. The price of the program is \$90 for the entire amount of time. For more information, call our office at 248-6388 and speak to the director, Becky, about this highly effective program.

The computer program providing cognitive exercises involves 4, 1-hour sessions a week for 6 weeks resulting in a maximum of 24 hours of mental-workout followed by a final assessment to determine progress.

The recommended schedule is this:

Day 1	Day 2	Day 3	Day 4
Visual or auditory memory training 20 minutes	Hierarchical Attention Training 20 minutes	Visual or auditory memory training 20 minutes	Word memory and discrimination 20 minutes
vocabulary building 40 minutes	vocabulary building 40 minutes	vocabulary building 40 minutes	vocabulary building 40 minutes

Computerized results will be printed out after each session. Users will also log their scheduled work manually. The programs' level of difficulty can be increased as the user's working-memory proficiency increases.

24 hours of training using these programs:

WordSmart

WordSmart programs are designed to increase vocabulary quickly. The built-in system helps users see their progress along the way, thus building confidence. WordSmart's exercises are arranged in volumes, starting with the easiest words. Each volume contains 10 to 12 groups of 20 words each. The WordSmart program will automatically move the user up to the next level if the user scores between 70 and 90 percent correct. Periodically WordSmart retests the user before advancing to a higher level. Should the user not have retained a high enough proficiency in previous levels of vocabulary understanding, then WordSmart automatically moves the user back to a re-teach level. In this way, long-term memory storage of vocabulary is assured. WordSmart tracks each user's progress so both user and supervisor can see concrete evidence that their efforts are improving their word knowledge.

There are five learning modes which the user will utilize for each session.

1. In *multiple-choice* exercises, users will hear the word in a sentence or phrase, and they will define that word with one of the five possible choices given. If the user gets it right, they will move right along to the next word. If the user misses the word, the program will wait until the user selects the right answer. After the user selects the right answer, the program will educate the student on the word with the "audio discussion" portion.
2. In *flashcards* the user is introduced to words and their meanings. There is no input required of the user for this phase of instruction.
3. In *column matching* the user finds a word on the left hand side of the screen and drags it to drop overtop the word that best defines the word in the middle column. The word will then appear on the far right hand side of the screen beside the word that it best defines.
4. In *sentence completion* a voice prompt will read the whole sentence or phrase, and the user types in the word that is missing.
5. In *laser review* the user shoots the asteroid with the correct definition.

Parrot Software included in the Basic Program

Hierarchical Attention Training

Description: Forty-eight combinations of attention activities at varying degrees of difficulty are included in the program. A target stimulus is first identified. Then a series of stimulus are displayed for short periods of time. The user is instructed to watch or listen for the target stimulus and respond only when it appears. When other stimuli appear, the user makes no response. This form of treatment paradigm (where not responding is sometimes the correct response) facilitates attending skills and helps curb impulsive or preservative behavior. The attention conditions from the simplest to most difficult are: Focused Attention, Selective Attention, Alternating Attention, and Divided Attention. Focused Attention requires watching for one event to occur and responding only when it does. Selective Attention is similar to Focused Attention except that an element of visual distraction is added. Alternating Attention requires attending to one stimulus for a period of time and then switching attention to another stimulus. Divided Attention requires attending to two different aspects of the same set of stimuli. The user must respond when a specific stimulus occurs and periodically information is requested concerning the frequency of occurrence of the stimulus set.

Visual & Auditory Memory Span

Visual and Auditory Memory Span was designed to test and exercise memory abilities. A list of between 1 and 9 items is presented, and the user must recall the entire list in the correct order. Stimuli can be either letters or numbers and can be presented either visually or auditory.

Word Memory and Discrimination

Word Memory and Discrimination requires users to remember a list of words and be able to discriminate the meaning between words in the list. Users hear a list of words and are then asked a question about one of the words; e.g., Which one is not an animal? You can display the list of words on the screen or as a more difficult option, you can require the user to type the correct answer without ever seeing the list.

***Sessions are held at HEDquarters, 605 W. Chestnut next to the HomeLink facility.
For information call 248-6388***



BASIC HEDway Program

Computerized Learning Enhancement

The basic program requires a minimum of one hour of practice per day, four days a week for six weeks. To determine amount of improvement achieved, a pre-test using the Gates-MacGinitie Reading test will be compared with a post-test at the conclusion of the 6-week enrichment program.

Please note

If any information related to this program is released, individual subjects will not be identified. Your child may withdraw from this program at any time, but after the first week, no refunds will be given. There should be no substantial stress or discomfort involved. There are no guarantees as to improvement in your child's reading / learning abilities, but based on previous pilot study data, on research supporting this approach, your child should benefit from participation in this program. If your child does decide to withdraw from the program before its conclusion, then improvement data will not be available to you or the child.

Please sign and date here that you have read and understood the above paragraph.

Student's name _____ birthdate _____

Grade in school for the coming term _____ phone number _____

Parent's name(s) _____

Address _____ zip _____

Email address _____ cell _____

Describe your student as a reader _____

I hereby give permission for my child to participate in this computerized learning enhancement program offered through HomeLink / HEDway.

Parent's request for enrollment signature _____ date _____

Director's signature _____

Please send the registration form with \$90 to:
HEDway, 14 S. 6th Ave. Yakima, WA. 98902

We will call you to make an appointment for pre-testing.

At the testing, the computer lab schedule for the student will be set.