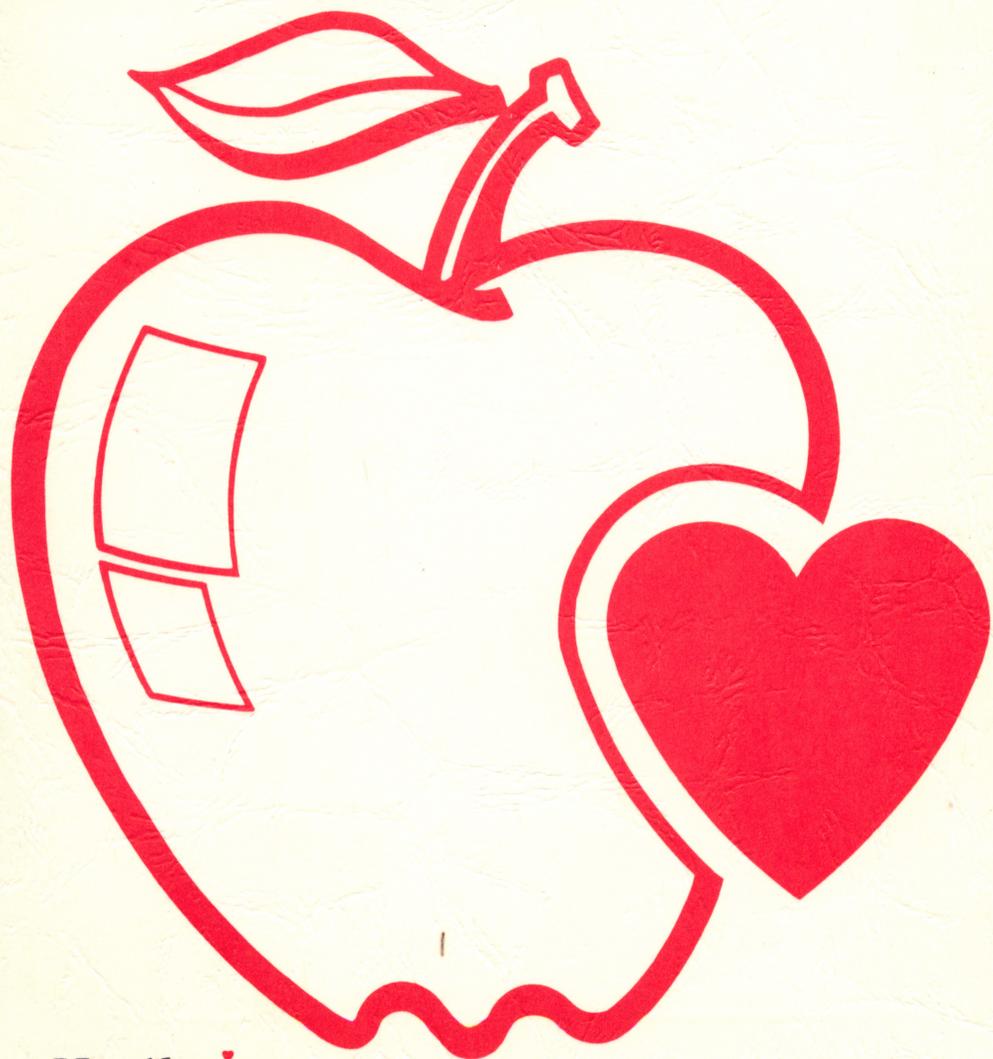


Create Lessons- Advanced



Hartley Courseware, Inc.

Create Lessons-Advanced

This program gives teachers of upper level students the opportunity to create their own computer lessons without technical programming experience. Using this handy utility, teachers can design practice lessons, tutorials, and tests. Hint and explanation frames and a variety of Design Options allow the teacher to tailor each lesson to specific needs. Students will profit from immediate feedback while complete recordkeeping of their progress is kept for the teacher.

Create Lessons-Advanced

requires the following hardware:

*a 48K Apple II+, IIe, or IIC

or Franklin ACE 1000

and one disk drive (two preferable)

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Dimondale, MI 48821

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APPLE COMPUTER, INC.

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This disk uses a high speed operating system, Diversi-DOS^{T.M.}, which is licensed for use with this program only. To legally use Diversi-DOS, you may send \$30.00 directly to DSR, Inc., 5848 Crampton Ct., Rockford, IL 61111. You will receive a Diversi-DOS utility disk with documentation.

The small upper/lower case alphabet used on this disk was developed by and is used with permission of MECC, 2520 Broadway Dr., Lauderdale, MN 55113.

INTRODUCTION TO CREATE LESSONS--ADVANCED

This program is especially useful for upper elementary, junior high and senior high school students, and adult education because of its small letter set and many options for lesson design.

The letter set permits teachers to present as many as ten lines of content in one frame. This space may be used in any way that best suits the subject matter — common uses are information frames, question frames, hints and explanations. A wide variety of content may be used from every part of the curriculum, as well as enrichment subjects.

Create Lessons-Advanced has a Master disk and a Data disk. The Master disk has space for 10 lessons, and the Data disk will hold 20 or more lessons, depending on their size.

The Master disk is used to create and run the lessons. The Data disk is for storage of completed lessons; it will not boot without the Master. Lessons (files) may be transferred back and forth between the two disks. File transfer may be done with just one disk drive, but is more easily done with two drives.

You may copy (back up) your data disks, eventually creating a large library of files that can be transferred and run on the Master. To copy the data disks, use the COPYA program on your Apple System Master disk.

It is a good idea to make backup copies of your data disks for safekeeping. You may initialize new disks using the option on the File Transfer Menu.

The reserved lesson space is now empty, except for two sample lessons. Go through the sample lessons as a student would to see how the program runs. Use the next section, **RUNNING THE PROGRAM**, as a guide. Deliberately select some wrong answers in order to see the hint and explanation frames. (Later you can delete the frames in these two lessons and reuse the space.)

Then you should be ready to enter your own lesson content. You will first decide how many frames to put in a lesson, then make several decisions about the presentation to the student, and finally type in the lesson. As your objectives and students change, you may modify existing lessons or create more new ones.

Refer to the Suggestions for Use at the end of this manual for some ideas in designing your lessons.

Read on for simple directions on entering content, checking the recordkeeping of student progress, and using the many instructional options on **Create Lessons--Advanced**.

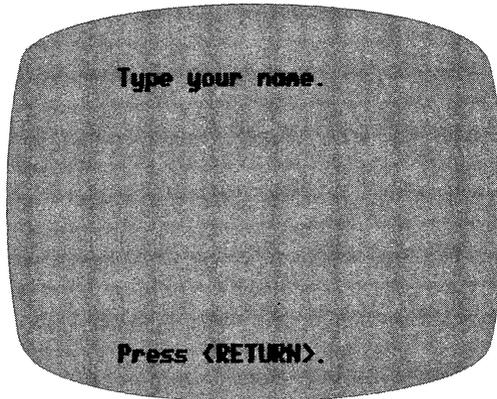
RUNNING THE PROGRAM

This program will boot on a 3.3 Disk Operating System.

Leave your CAPS LOCK key in the up position.

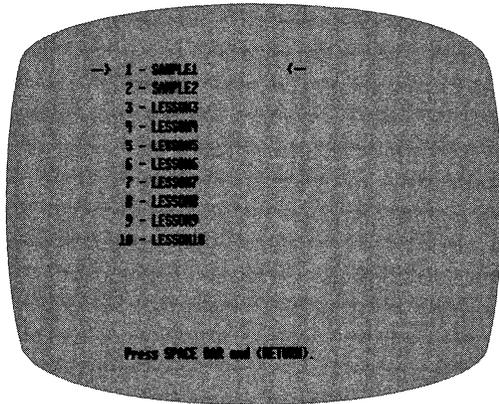
Put the Master disk in Drive #1; close the door.
The disk will boot automatically when you turn on the computer.

The credits will vanish and this frame will appear:



The best way to learn the program is to go through it as a student would. You (or the student) would type in your name and press <RETURN>.

The next frame lists the available lessons:

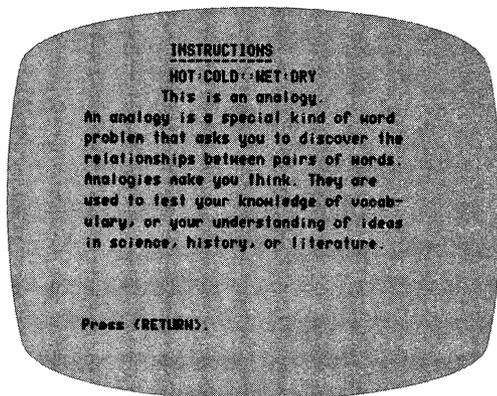


Press the <SPACE BAR> to move the arrow. Select one of the first two lessons, which show sample content. (Sample lessons are taken from another Hartley program.* You may substitute your own lessons later.) Press <RETURN> to enter your selection.

*Sample Lessons from: Analogies Advanced,
Hartley Courseware, Inc., ©1984

After the lesson has been selected, the first screen to appear will be the INSTRUCTIONS for that lesson.

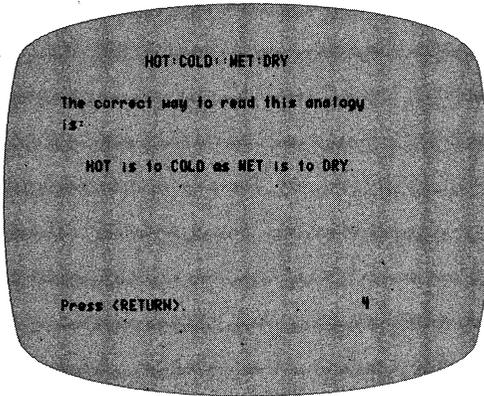
Sample Screens
in this section
are from Lesson 1



The teacher selects whether students may refer to the INSTRUCTIONS frame at any time by pressing "H" (and <RETURN>) when a response is called for. This is one of the Design Options accessed through the Teacher's MENU. If the student goes to the INSTRUCTIONS, the program will automatically return to the appropriate frame.

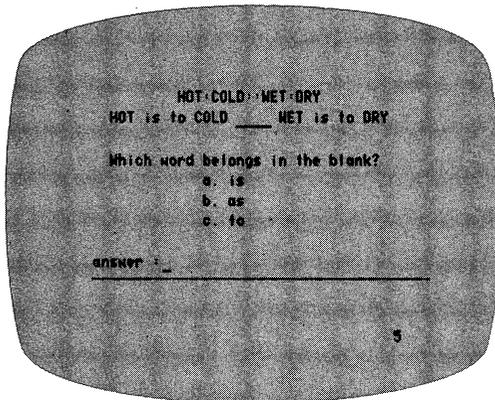
The frames in the lesson will then be presented.

A sample INFORMATION frame looks like this:



An INFORMATION frame does not ask the student for a response.

A typical QUESTION frame looks like this:



The teacher may decide, via the Design Options, if the students will be able to back up with the left arrow key to re-read an INFORMATION frame before answering a question.

Answers may use numbers 1 - 5, letters A - E, or use words (up to 25 characters). If the question is answered correctly, the computer will present the next INFORMATION or QUESTION frame.

Incorrect answers may be followed by either a HINT or an EXPLANATION frame. The content and the preference of the teacher determine which is used, if any. These feedback frames help students with difficult material and may be worded in several ways.

A HINT frame is generally used in tutorials to guide the student to the correct answer.

How would you read this analogy?
BIG:LARGE::LOUD:NOISY

- a. BIG LARGE LOUD NOISY
 - b. BIG is LARGE as LOUD is NOISY
 - c. BIG is to LARGE as LOUD is to NOISY
 - d. BIG as LARGE is to LOUD as NOISY
 - e. none of these
- answer :b
-

Sorry.

Press <RETURN> for hint.

When you read an analogy, : means
'is to' and :: means 'as'.

After displaying a HINT frame, the computer then returns to the frame just missed to give the student another chance. The number of chances a student is given may be set by the teacher via the Design Options.

An EXPLANATION frame is frequently used in a testing sequence or when an explanation of the correct answer is needed.

How would you read this analogy?

BEET:RED::SKY:BLUE

- a. BEET is to RED as SKY is to BLUE.
- b. BEET is RED and SKY is BLUE.
- c. BEET is to SKY as RED is to BLUE.
- d. BEET as to RED is SKY as to BLUE.
- e. none of these

answer :d

Sorry. Press <RETURN>

to see the answer.

The correct answer is:

- a. BEET is to RED as SKY is to BLUE.

BEET has the same relationship to RED
that SKY has to BLUE.

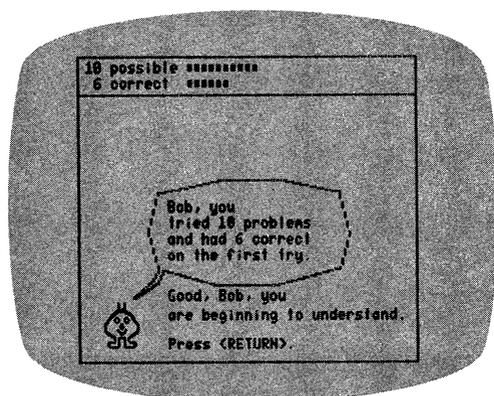
Press <RETURN>.

When students answer questions correctly, a reinforcer will appear (at teacher option) as a reward. You may select from four options: no reinforcer, words only, a little man only, or both words and man. The exact words are selected by the teacher; the percentage of correct answers for which the man moves can also be set by the teacher.

There is an ESCape option on this program. If for some reason you wish to terminate the lesson, press <ESC> any time a response is called for. What has been attempted up to that point will be recorded.

Unless a lesson is stopped by pressing the <ESC> key when a response is called for, all items in the lesson will be presented. All items missed are stored in the Student Planning file for later review by the teacher.

At the end of the lesson, the student will be shown the following screen indicating the number correct out of the number attempted:



If the teacher has used the Design Options to terminate a lesson after the student answers a certain number of questions in a row correct, the graph will change slightly when the student achieves this criterion.

For example, if there are 16 questions in the lesson, the screen will say:

"Out of 16 questions, you answered 10 and had 10 correct on the first try."

The computer will then return the student to the "Type your name" frame, ready for another student or another lesson.

FOR THE TEACHER ONLY

Student Problems

After a student has begun work on a lesson, use the Student Planning file to help you diagnose problem areas. This file keeps track of specific frames a student misses. If a student consistently misses certain items, you may want to add HINT frames or more practice frames. Use the CREATE/CHANGE A LESSON option (from the Teacher's MENU) to modify any of the frames, add HINT or EXPLANATION frames, or simply add more practice frames. The following pages explain how to use these features.

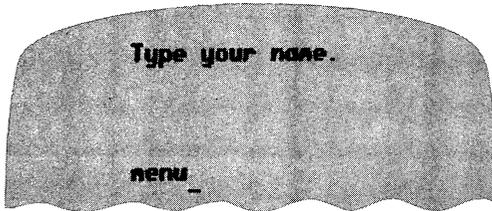
Branching

This program has not been designed to automatically branch to an easier or more difficult lesson. It is the philosophy of the teachers who designed it that the teacher is better qualified to prescribe the next lesson based on his/her knowledge of the student's needs and the planned classroom activity.

By using the Design Options, the teacher can define the criteria under which the program will terminate any lesson if the content is too easy or too difficult for the student and to alert the teacher that a new prescription is needed.

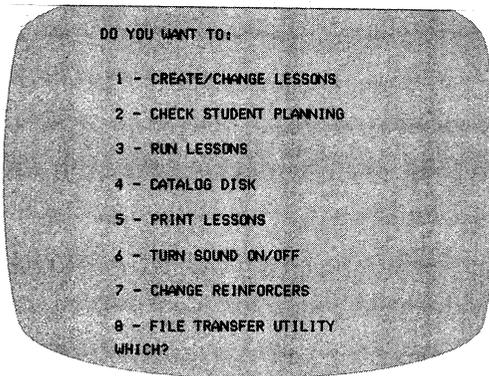
THE TEACHER'S MENU

Programs available from the Teacher's MENU allow the teacher to modify lesson content, gain access to the recordkeeping files, and change many options which affect the running of the student lessons.



Type MENU instead of your name to access the Teacher's MENU.

The following screen will appear.

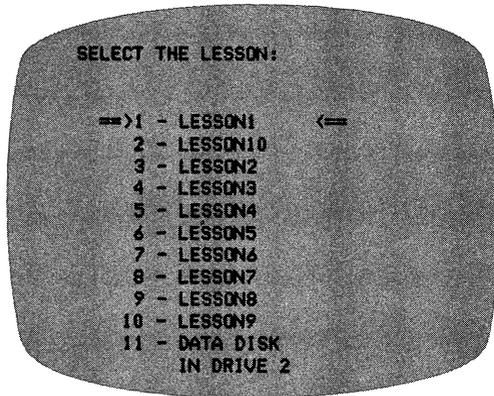


The following pages describe exactly how to use each of the features on the Teacher's MENU.

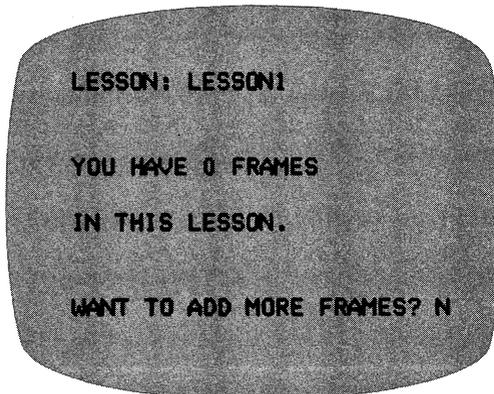
CREATE/CHANGE A LESSON

If you wish to create a new lesson or change an existing lesson, select 1 - CREATE/CHANGE A LESSON from the Teacher's MENU.

The LESSON MENU will be displayed on the screen. Use the <SPACE BAR> to move the arrows to the lesson you wish to work on; press <RETURN> to enter your selection.



The lesson will be loaded into the computer. You can enter new frames, add more frames, or change existing ones.



If you want to create or increase the number of frames, type Y. You are limited to 25 frames per lesson.

You will then be asked:

ADD HOW MANY FRAMES?

Type the number of frames you wish to add to the lesson and press <RETURN>.

After indicating the number of frames you wish to add, the program asks you to enter the concept being taught:

CONCEPT: ADJECTIVES

The concept you select will appear when students' records are displayed in STUDENT PLANNING. It will be helpful if each lesson has a different descriptive concept name. The concept may be 30 characters long. When you have entered the concept name, the DESIGN OPTIONS for that lesson will be displayed.

DESIGN OPTIONS

Each of the Design Options gives you the opportunity to influence the way the lesson is presented to the students. A question and a choice of answers are displayed on the screen; select the answer you wish, press <RETURN>, and the next option will be shown.

DESIGN OPTIONS

DO YOU WANT THE STUDENT TO BE ABLE
TO BACK-UP AND RE-READ THE INFORMA-
TION AT ANY TIME BEFORE ANSWERING A
QUESTION?

ENTER 'Y' OR 'N' ==> ?

DESIGN OPTIONS

DO YOU WANT THE STUDENT TO BE ABLE
TO PRESS 'H' AND RE-READ THE INSTRU-
CTION FRAME AT ANY TIME?

ENTER 'Y' OR 'N' ==> Y

Note that the second option has a flashing "Y" answer. This is the answer already entered in the program. If you wish to answer "Y," simply press <RETURN>. If you wish to answer "N," press that key followed by <RETURN>.

DESIGN OPTIONS

DO YOU WANT THE QUESTIONS TO
BE PRESENTED IN A RANDOM
ORDER OR THE SEQUENTIAL ORDER IN
WHICH THEY WERE ENTERED?
ENTER 'R' OR 'S' ==> S

For instructional lessons that are carefully sequenced, you would want the frames presented in the same order. For drill or tests, you may want random order.

The next option allows you to choose the way in which students will enter their answers. Select the number that best fits the content and your instructional goals:

DESIGN OPTIONS

DO YOU WANT THE
STUDENT TO ENTER:
1 - A,B,C,D OR E
2 - 1,2,3,4 OR 5
3 - ANYTHING UP TO
25 CHARACTERS
ENTER 1,2, OR 3 ==> ?

DESIGN OPTIONS

HOW MANY TRIES WOULD YOU LIKE
TO GIVE THE STUDENT BEFORE THE
CORRECT ANSWER IS DISPLAYED?

ENTER A NUMBER FROM 1 TO 9 ==>

If you are using HINT frames, you will want to give the student at least two tries.

The following "Student Safeguards" allow you to set the criteria upon which the computer will branch to the end of the lesson. It is the philosophy of the teachers who designed this program that if a lesson is too easy or too difficult, the computer should terminate the lesson. The TEACHER should decide what to teach and how to respond to the student's work.

STUDENT SAFEGUARDS

IF THE STUDENT IS DOING POORLY,
THE LESSON WILL TERMINATE IF HE/SHE
HAS LESS THAN 20% CORRECT ON THE
FIRST TRY.

(ENTER A NUMBER FROM 1 TO 49)

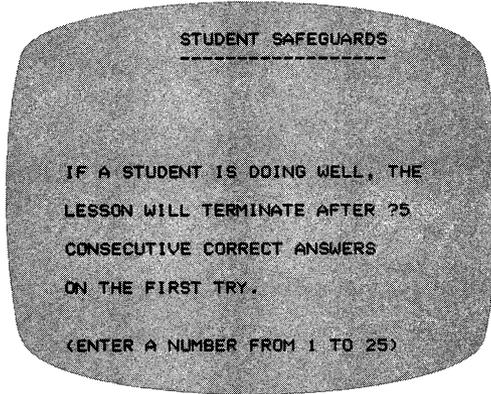
The next question relates to the above decision.

STUDENT SAFEGUARDS

EVEN IF THE STUDENT IS DOING
POORLY, AT LEAST 24 FRAMES
WILL BE PRESENTED BEFORE THE
LESSON IS TERMINATED.

(ENTER A NUMBER FROM 1 TO 25)

You will need to include at least several frames. If you don't, the lesson will terminate on the first frame if there is an error (0% being below any % you set in the previous option).



If there is a variety of skills taught or reviewed in one lesson, you may want the student to complete all the work no matter how well he/she does on the first questions. If so, change this option to include the number of questions in the lesson.

Note: By using the random order option and the Student Safeguards, this disk was designed to allow you to create a modifiable item pool. Rather than drawing a specific number of items, the items will be used until the student meets the criterion you specified (in terms of the number of items in a row correct).

This type of criterion was considered preferable to a percentage because it takes into account the fact that the child may do poorly in the beginning but learn the concept during the lesson and begin to answer all items correctly.

The Student Safeguards do not apply to the next two Design Options. It is assumed that the teacher would want all missed items reviewed.

DESIGN OPTIONS

AFTER THE STUDENT HAS GONE THROUGH
ALL THE FRAMES IN A LESSON, DO YOU
WANT THE QUESTIONS HE/SHE MISSED TO
BE PRESENTED AGAIN?

ENTER 'Y' OR 'N' ==> Y

DESIGN OPTIONS

WHEN THE QUESTIONS ARE PRESENTED
AGAIN, HOW MANY TRIES WOULD YOU
LIKE TO GIVE THE STUDENT BEFORE
THE CORRECT ANSWER IS DISPLAYED?

ENTER A NUMBER FROM 1 TO 9 ==> 1

The last two Design Options control the reinforcers that appear when a correct answer is given. They enable you to fit the reinforcers to your students and to the content being taught.

DESIGN OPTIONS

SELECT DESIRED OPTION FOR REINFORCER:

1 - NO REINFORCER
2 - WORDS ONLY
3 - LITTLE MAN ONLY
4 - BOTH WORDS AND MAN

WHICH? 4

DESIGN OPTIONS

FOR WHAT PERCENTAGE OF CORRECT ANSWERS
SHOULD THE LITTLE MAN DO TRICKS?

ENTER 0-100 ==> 20

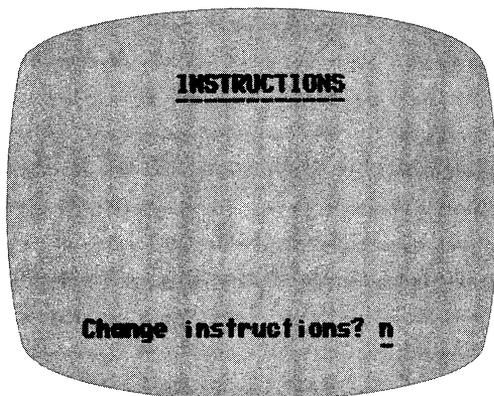
Note: If the reinforcer is set to show the little man but the frequency is set at 0, he will appear when an answer is correct but will not move.

After all the Design Options have been set, the INSTRUCTIONS frame will be shown.

CHANGE INSTRUCTIONS? N

If you do not want to change the INSTRUCTIONS frame, simply press <RETURN>; if you do wish to create or change this frame, you must type Y and <RETURN>.

When you create or change the INSTRUCTIONS, the cursor will appear on the first line. An INSTRUCTION frame looks like this:



(Remember that the Design Options allow you to select whether the students may access the INSTRUCTIONS frame at any time by pressing "H" when a response is called for.)

You may type new INSTRUCTIONS or change the existing ones. If you don't wish to change a line, just press <RETURN> to move the cursor to the next line. If you have an Apple IIe or IIc, letters may be capitalized in the usual way using the shift key. The DELETE key functions like the back arrow. The up and down arrow keys have no function in this program.

If you have an Apple II+, capitalize letters by pressing the ^ key just before the letter to be capitalized. Pressing it twice locks the CAPS mode on. Press it again to return to lower case.

If you make a mistake while typing in your content, use the ← arrow to erase on the same line. (At the left margin the ← arrow also will move the cursor up, line by line.) To erase a whole line, use the space bar or type new content over the old. At the end of a line, use <RETURN> to move to the next line.

When the instructions are finished, again press <RETURN>.

CREATING, ADDING AND CHANGING FRAMES

The procedure for creating, adding, or changing frames is the same, except that when changing a frame, you begin with the contents previously entered in that frame. In changing a frame, begin as if you were typing over the old content. The first letter you type will erase the rest of the line.

If you are adding frames, you will be shown the first frame you wish to add. (If the lesson already had 19 frames, frame #20 will appear blank, the cursor on the first line, ready for you to type.)

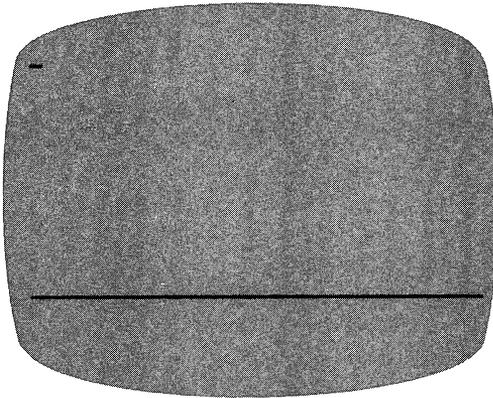
To back up and review the previous frames, use the ← key. The use of the ← and → keys allows you to page through the lesson.

Letters may be capitalized using the directions given above for the INSTRUCTIONS frame. To make a blank (____) in a question, use the @ sign at the beginning and end of the blank. To underline, press the # just before and just after typing the material to be underlined.

Note: It is possible to delete frames after the lesson has been typed in and saved. Instructions for deleting frames are at the end of this section.

If you do not want to page through all the remaining frames when you have finished making your changes, type END at the beginning of the first line of a question or information frame. This will branch you to the end of the lesson. This seems a little scary, but don't worry; the changes made up to (but not including) this frame will be saved ALONG WITH THE REMAINING UNCHANGED FRAMES IN THE LESSON.

Frames may be either INFORMATION frames or QUESTION frames. Here is a blank INFORMATION/QUESTION frame:

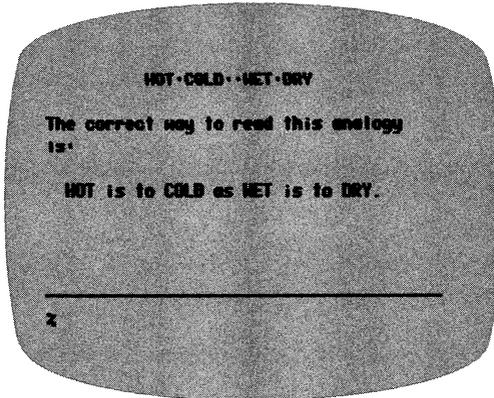


INFORMATION frame

INFORMATION frames require no response from the student. They are used to present lesson material. Use the % in the answer's place to indicate to the computer that there will be no answer.

When an INFORMATION frame precedes a question, the student can (using the ← key) go back to the INFORMATION frame for help in answering the question.

Enter up to 10 lines of information with up to 39 characters each.



QUESTION frame

This kind of frame requires a response from the student, usually relating to the content in the previous frame. It may take any format you would like.

You may enter up to 10 lines for the question. Each line may be 39 characters long.

Then enter no more than 4 correct answers for each question (four forms of the same answer). Be sure that the answer you want students to see (if they miss the question) is the first answer you enter.

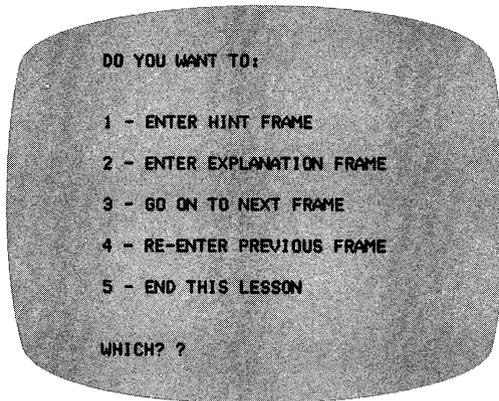
This is how a question frame looks after contents have been typed in:

HOT·COLD·MET·DRY
HOT is to COLD ___ MET is to DRY.
Which word belongs in the blank?
a. is
b. as
c. to

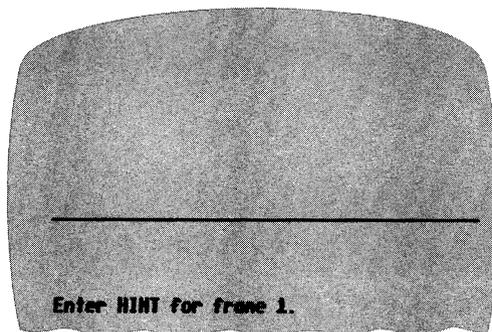
a
b
c

HINTS and EXPLANATIONS

After entering a new frame or changing an existing one, you will then branch to the "Secondary" Menu:



This allows you to enter a HINT or EXPLANATION frame. The HINT frame will be shown to the student after s/he misses the question. If you wish to enter a HINT frame for the first question, select 1 - ENTER HINT FRAME and this will appear:

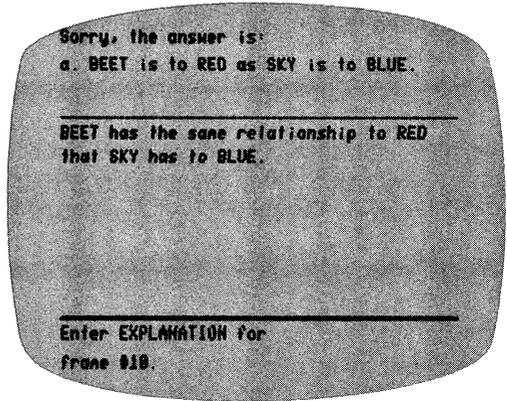


You may enter up to 6 lines of text, 39 characters per line, in a HINT frame.

After entering the HINT and pressing <RETURN>, the computer will automatically place you at the next frame, ready for the next information frame or question.

2 - ENTER EXPLANATION FRAME is used when a HINT might not be appropriate, but you want to give the student more feedback than just the answer. The EXPLANATION frame will be shown to the student after s/he has missed the question on the last try. (The number of tries has been set by the teacher at the beginning of the lesson in the Design Options.)

The EXPLANATION frame as you create/edit:



The same EXPLANATION frame as the student sees it when running the lesson:



Note that the EXPLANATION frame will display the FIRST answer alternative entered on the related question frame.

You may enter up to 6 lines of 39 characters each in EXPLANATION frames.

If you select 3 - GO ON TO NEXT FRAME, you will be taken to the next consecutive frame without entering a HINT or EXPLANATION frame for the previous question.

You may use 4 - RE-ENTER PREVIOUS FRAME if you have entered a HINT or EXPLANATION frame and want to review the question frame you just entered.

Selecting 5 - END THIS LESSON will take you to the last question in the lesson:

SAVE THIS LESSON? Y/N

If you type Y, the changes you have made will be incorporated into the lessons on the disk. If you type N, the lesson will be saved in its original form. (If you wish, you may also change the lesson name at this time if it is relevant to the lesson changes you have made.)

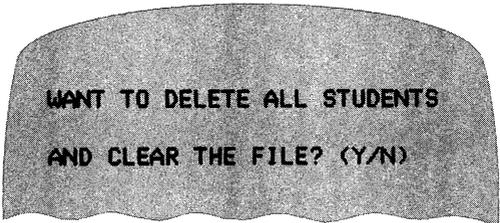
Now that the lesson has been created and saved, you may delete a frame (or frames) if you wish. Remain in the CREATE/CHANGE A LESSON mode and go back to the same lesson. Use the <RETURN> key and the → arrow to go through the frames until you find the one(s) you wish to delete. To delete, type <CTRL D> (the CONTROL key and the D key simultaneously) on the first space of the first line. Remember, you can delete frames only after the lesson has been typed in and saved. After deleting, go to the end of the lesson and save it in its revised form.

You will then be returned to the Teacher's MENU.

STUDENT PLANNING

As a student works through a lesson, the errors that s/he makes are recorded in the STUDENT PLANNING file. To see this file, type MENU to bring up the Teacher's MENU.

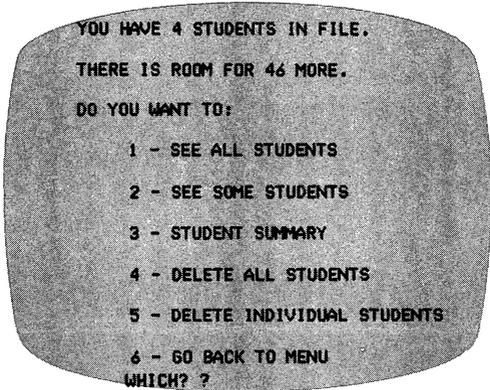
Select 2 - STUDENT PLANNING from the Teacher's MENU. The first frame to appear is:



WANT TO DELETE ALL STUDENTS
AND CLEAR THE FILE? (Y/N)

Type N if you want to see the file; Y if you want to completely erase all student records. Press <RETURN>.

If you typed N, indicating you would like to see the file and not erase it, the Student Planning Menu will appear:



YOU HAVE 4 STUDENTS IN FILE.
THERE IS ROOM FOR 46 MORE.
DO YOU WANT TO:
1 - SEE ALL STUDENTS
2 - SEE SOME STUDENTS
3 - STUDENT SUMMARY
4 - DELETE ALL STUDENTS
5 - DELETE INDIVIDUAL STUDENTS
6 - GO BACK TO MENU
WHICH? ?

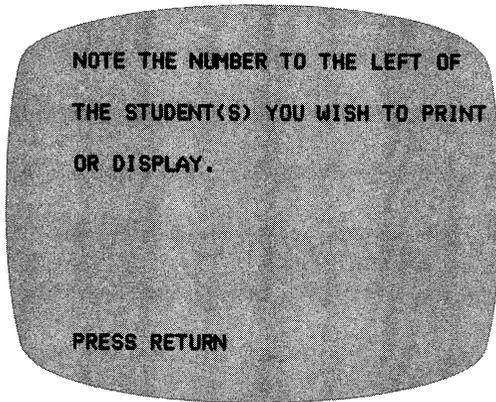
If you choose 1 - SEE ALL STUDENTS, the computer asks:

ARE YOU USING A PRINTER? (Y/N)

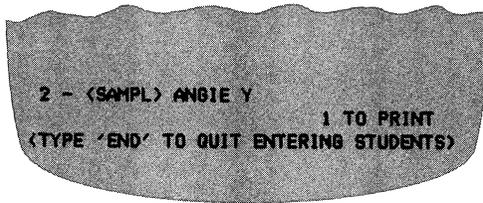
If Y, it will ask for the slot number, which is usually 1 or 2. If you're not sure, take off the cover and check the location of your printer card. After entering the slot number, all the records will be printed.

If you are not using a printer, records will be displayed on the screen. Scrolling of records is under control of the teacher by pressing <RETURN>.

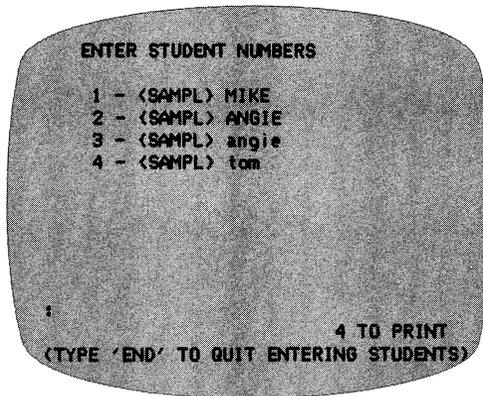
If you want to see only some of the students, select 2 - SEE SOME STUDENTS. This frame appears:



As you select the students whose records you wish to view, you will be typing just the number of the student.



Type the number of the student you want to see and press <RETURN>. For example: If you type 2, the lesson name and student name will appear at the bottom of the frame. This is a check. Press <RETURN> if that is the student you wish to see. This gives you a chance to change your mind and enter N if you don't want to see that particular student.



The computer keeps a running tally on the number of students you have selected.

Continue selecting students whose records you want to see. When you have entered the numbers of all the students you wish to see, type END (in place of another number).

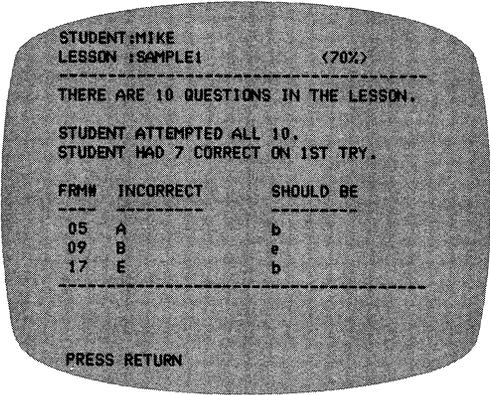
The following question is asked:

ARE YOU USING A PRINTER? (Y/N)

If you type N, the records will come up on your monitor. If you type Y, you will be asked:

WHICH SLOT?

It will usually be 1 or 2, but if you're not sure, take off the cover and check the location of your printer card. The display and printout will be in the following format:



Press <RETURN> to see records for all the students you have selected.

After all information is displayed, you will be asked:

WANT TO DELETE ALL STUDENTS
AND CLEAR THE FILE? (Y/N)

The <ESC> key may be pressed at any time to terminate display or printout of student records. A maximum of 50 records can be stored in this Student Planning file. Space must then be cleared before additional records can be stored. To clear space, answer Y to the question at the end of the display/printout, use option 4 from the Student Planning Menu - DELETE ALL STUDENTS, or use option 5 - DELETE INDIVIDUAL STUDENTS.

3 - PRINT STUDENT SUMMARY

This option from the Student Planning Menu allows you to see or print out a summary of records for the entire class. If you are viewing records on a monitor, the summary is in the following format:

STUDENT NAME	LESSON	1ST TRY
MIKE	SAMPLE1	70 %
ANGIE	SAMPLE1	50 %
angie	SAMPLE2	71 %
tom	SAMPLE1	70 %

* = CONSISTENTLY RIGHT. E = <ESCAPED>
PRESS RETURN

If you have a printer, the printout of the Student Summary will include more information than you can see on the screen. The printout includes the skill statement, the number correct, and the number of questions.

4 - DELETE ALL STUDENTS

If you want to clear all the student records, use this option.

5 - DELETE INDIVIDUAL STUDENTS

A number of teachers have asked for this option. This is most valuable when several teachers are using the same disk. It allows you to print the records of just a few of your students and then erase only those selected records from the file. The procedure is the same as in SEE SOME STUDENTS; selected records will be deleted.

6 - GO BACK TO MENU

If you are finished viewing the student records and wish to be returned to the main Teacher's MENU, use this option.

RUN LESSONS

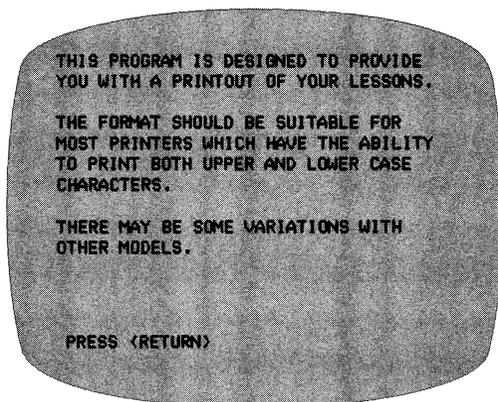
After you have created a lesson, go through it as a student would. This will allow you to check the grammar, spelling, format, and word and picture reinforcers. It will also show you the way the student records are displayed.

CATALOG DISK

This file holds the list of all lessons on the disk. This can also be accessed by typing a ? when the "Type the name of the lesson you will be working on" frame appears.

PRINT LESSONS

This feature allows you to print out any of the lessons on this disk so that you can edit them more easily. The first screen to appear is:



After the name of the lesson is entered, you will be asked to enter the printer slot number and the date.

When the printout is completed, you can enter another lesson, if desired.

TURN SOUND ON/OFF

This option allows you to turn the sound which accompanies the graphics in this program ON and OFF. After making your selection, you will be returned to the Teacher's MENU.

CHANGE REINFORCERS

REINFORCERS are phrases which appear on the screen to provide feedback to students when they select correct answers. You may edit the reinforcers in this program by using this option.

There is also a picture reinforcer in this program. The Design Options (in CREATE/CHANGE A LESSON) allow you to choose the specific reinforcers for each lesson: no reinforcer, words only, picture only, or both words and pictures.

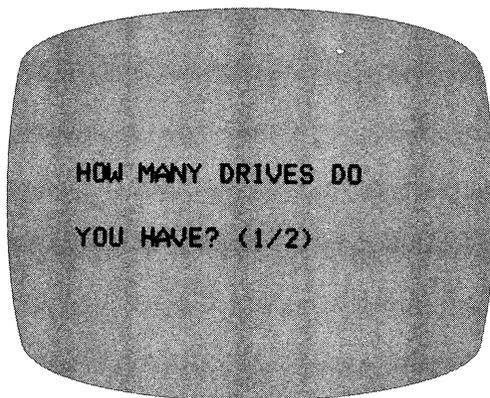
FILE TRANSFER UTILITY

When you type in your lesson content, you will be using the Master disk. There is space for ten lessons on the Master and approximately 20 on the Data disk. When the ten lessons (files) on the Master have been filled, you will need to transfer them to the Data disk, and move empty lesson space from the Data disk to the Master so that you can type in more lessons.

The first two lessons on the Master have sample content. Before you begin entering your own material, you may want to move the sample content. (This is up to you; the space is yours to use as you wish.) If you want to move it, you could transfer the files to the data disk and/or print them (if you have a printer) using option 5 from the Teacher's MENU, PRINT LESSONS.

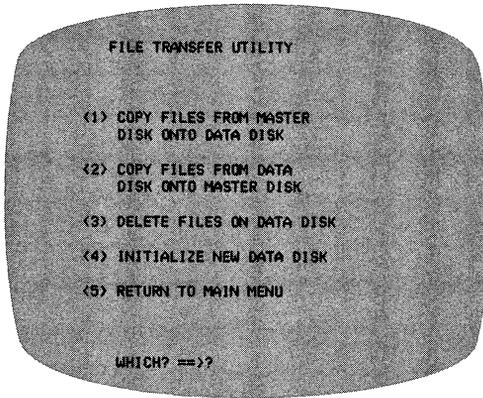
The process of transferring files seems more complicated than it is. You will soon be moving files with ease. Try it!

When you select 8 - FILE TRANSFER UTILITY, the program will first ask:



Moving files is easier if you have two disk drives, since the program will automatically access the correct drive. The instructions below assume you have two drives. If you have one drive, just follow the directions on the screen for moving your Master and Data disks.

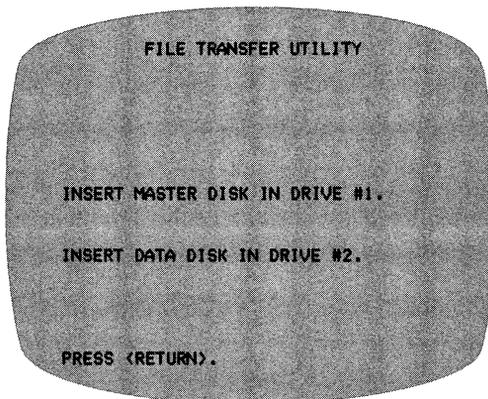
When you have indicated the number of drives you have, press <RETURN> and the next screen appears:



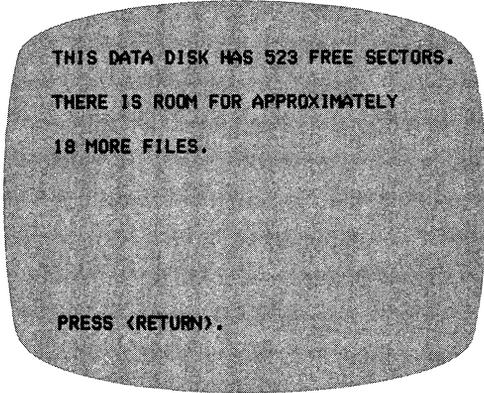
Below are explanations of the FILE TRANSFER MENU. As you work with file transfer, press ESCape at any time to stop the process and return to the MENU.

1 - COPY FROM MASTER TO DATA

The first screen appears:



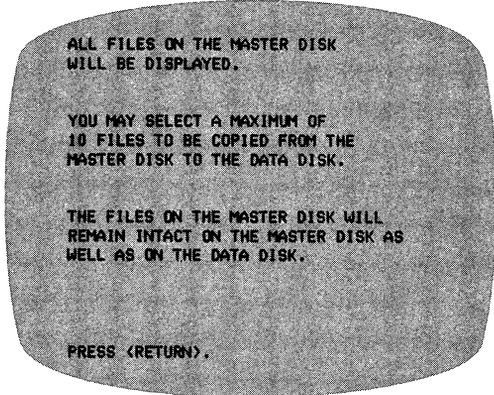
The next screen tells you how much space is available on the Data disk:



THIS DATA DISK HAS 523 FREE SECTORS.
THERE IS ROOM FOR APPROXIMATELY
18 MORE FILES.

PRESS <RETURN>.

Then the message:



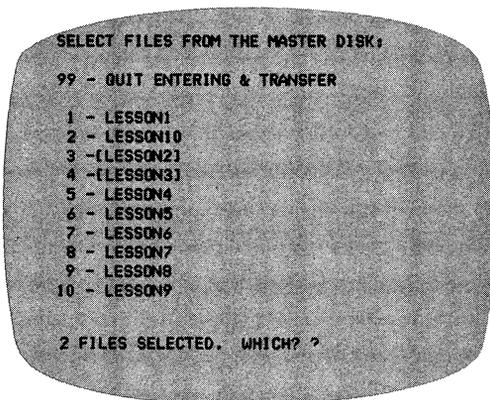
ALL FILES ON THE MASTER DISK
WILL BE DISPLAYED.

YOU MAY SELECT A MAXIMUM OF
10 FILES TO BE COPIED FROM THE
MASTER DISK TO THE DATA DISK.

THE FILES ON THE MASTER DISK WILL
REMAIN INTACT ON THE MASTER DISK AS
WELL AS ON THE DATA DISK.

PRESS <RETURN>.

The only way you will delete files from the Master disk is in a later step, when you can "overwrite" them by transferring files to the Master from the Data disk.

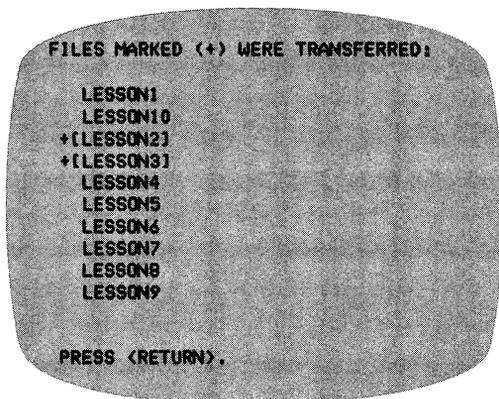


Type the numbers of the lessons you wish to move to the Data disk and press <RETURN> after each one. (When you have entered your own content and renamed the lessons, those names will be on the list of files ready for transfer.) Type 99 and <RETURN> when you are finished selecting files and are ready to transfer. The screen will say:

PRESS <RETURN> TO BEGIN TRANSFER.

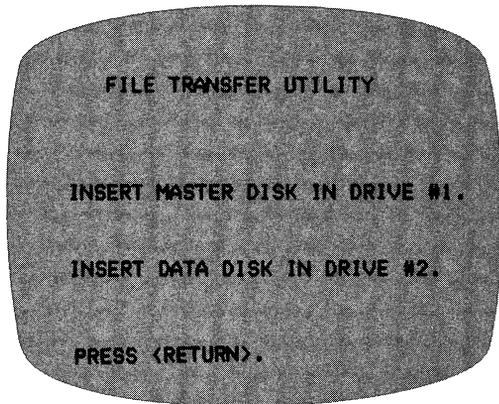
The drives will automatically read and copy the files you selected to the Data disk. (Remember, if you have just one drive, follow the screen prompts to move your disks.)

The screen tells you which files were transferred. Press <RETURN> to go back to the FILE TRANSFER MENU.



2 - COPY FILES FROM DATA DISK TO MASTER DISK

Insert your disks as the screen directs.



Now the message:



Again select the files you wish to transfer by typing their numbers, followed by <RETURN>. Type 99 and <RETURN> when you have finished selecting files to transfer.

Now you need to select the files on the Master disk which will be replaced by the Data disk files. Note the warning that the files selected will be lost unless they have been moved to the Data disk.

ALL FILES ON THE MASTER DISK
WILL NOW BE DISPLAYED.

YOU MUST SELECT 2 FILES
TO BE OVERWRITTEN BY THE NEW
FILES FROM THE DATA DISK.

WARNING! ANY FILES YOU SELECT TO BE
REPLACED ON THE MASTER DISK WILL BE
LOST UNLESS THEY HAVE PREVIOUSLY BEEN
TRANSFERRED TO A DATA DISK.

IF YOU DO NOT WANT TO TRANSFER
FILES NOW, THEN PRESS <ESCAPE>
TO RETURN TO THE MAIN MENU.
PRESS <RETURN>.

SELECT FILES FROM THE MASTER DISK:

- 1 - LESSON1
- 2 - LESSON10
- 3 - (LESSON2)
- 4 - LESSON3
- 5 - LESSON4
- 6 - LESSON5
- 7 - LESSON6
- 8 - LESSON7
- 9 - LESSON8
- 10 - LESSON9

1 FILES SELECTED. WHICH?

Type the number of each file to be replaced and press <RETURN> after each; then the screen will say "PRESS <RETURN> TO BEGIN TRANSFER."

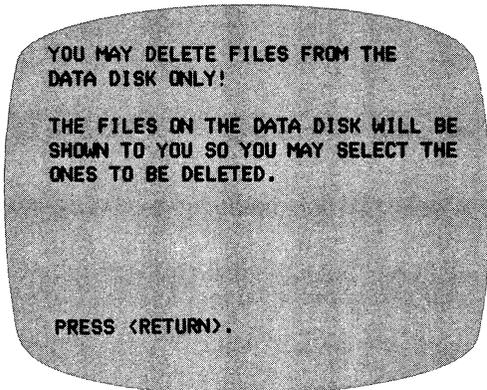
The disk drives will automatically replace the files you chose on the Master with those you wish to transfer from the Data disk. Watch the screen for messages that the program is removing, copying, and saving the files, and finally updating the MENU.

Next you will be shown the MENU from the Master disk, which indicates the files that have been newly transferred from the Data disk. Press <RETURN> to go back to the FILE TRANSFER MENU.

3 - DELETE FILES ON DATA DISK

Periodically you may wish to make a backup copy of your Data disk using your Apple COPYA program. This gives you the ability to create unlimited data files to meet different teaching and student needs. If you have copied your data files, or if you no longer need them and wish to delete them from the Data disk, use this utility.

Once again you will be instructed to insert the Master disk in drive #1 and the Data disk in drive #2. Press <RETURN> to see this screen:

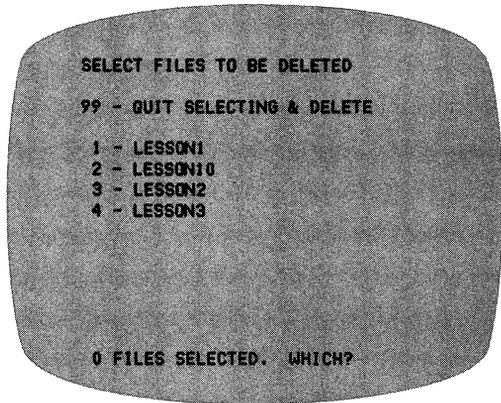


YOU MAY DELETE FILES FROM THE
DATA DISK ONLY!

THE FILES ON THE DATA DISK WILL BE
SHOWN TO YOU SO YOU MAY SELECT THE
ONES TO BE DELETED.

PRESS <RETURN>.

Type the numbers of the files to be deleted; type 99 and press <RETURN> to delete.



Remember: To stop the delete process, press ESCape.

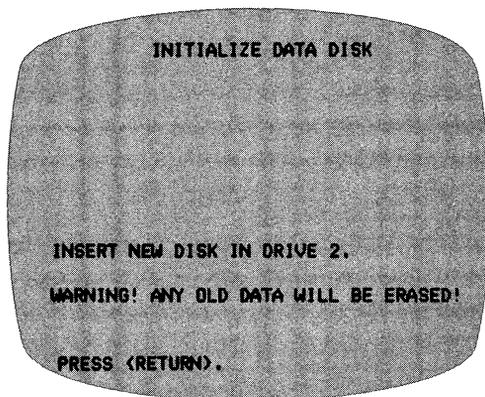
The screen messages will print the lesson numbers as they are being deleted. When the files have been erased, pressing <RETURN> takes you back to the FILE TRANSFER MENU.

4 - INITIALIZE NEW DATA DISK

Use this handy utility to create additional data disks when all your lesson space is full or if you wish to group certain lessons together on one disk.

A blank disk that is initialized this way can be substituted for the Data disk that is included in your package.

When you select this option, the first screen is:



As the disk is being initialized (formatted), the screen messages keep you informed. Finally, you will see:

DATA DISK IS INITIALIZED.

PRESS <RETURN>.

You will be sent back to the FILE TRANSFER MENU.

5 - RETURN TO MAIN MENU

When you have finished transferring or deleting files and initializing disks, use this option to return to the Teacher's MENU.

SUGGESTIONS FOR USE

This disk is a culmination of suggestions from teachers across the country who have been using the Hartley Create-Lessons series.

Secondary and adult education teachers have been enthusiastic about this program, since it allows ample space on the screen for lesson content and uses a small letter set. It may also be used for some upper elementary and gifted students who will respond to challenging material.

DRILL AND PRACTICE

You may use the instructions followed by 25 frames of questions. These may be randomly or sequentially presented. The Design Options may be used to terminate the lesson when the student reaches the specified performance level.

Because the car wouldn't start, we called a tow truck.

Which follows 'because' (and is the CAUSE)?

- 1) The car wouldn't start.
- 2) We called a tow truck.

answer : _____

We could not finish the game because it was getting dark.
Which is the CAUSE?

Which comes after 'because'?

- 1) We could not finish the game.
- 2) It was getting dark.

answer : _____

TUTORIALS

By having students progress through the frames in the same manner in which they were entered, you can build a carefully sequenced tutorial, complete with HINTS to guide your students to the correct answers.

Because the light turned red,
the truck had to stop.

Which is the CAUSE?

- 1) The light turned red.
- 2) The truck had to stop.

answer : _____

Sorry.

Press <RETURN> for hint.

Remember, the CAUSE always
comes after the word BECAUSE.

Press <RETURN>.

Sample screens in this section from Cause and Effect, Hartley Courseware, Inc., ©1985

TO IMPROVE SIMPLE COMPREHENSION

If an INFORMATION frame is followed by a QUESTION frame, the student can go back to the INFORMATION frame by pressing the ← key.

Information Frame

BECAUSE is an important clue word when you are trying to figure out which part of a sentence caused the other part of the sentence to happen.

Question Frame

John went to bed because he was sick.

Which comes after the word 'because'?

- 1) John went to bed.
- 2) He was sick.

answer : _____

OTHER USES

This program format has also been used for such diverse things as:

- teaching students to use the library
- working with LD students to develop sequencing skills
- matching vocabulary with definitions

Any instructional sequence which could be more effectively presented with the information broken down into small steps would fit nicely into this format.

TROUBLESHOOTING

Some common problems and possible solutions are discussed here. Every care has been taken to produce and verify quality programs. If you are having technical difficulty with your disks, check here first! If these solutions do not seem applicable or do not correct the problem, call our toll-free number, 1-800-247-1380. We will try to help!

ERROR #4: If the disk boots and runs one lesson but "hangs up" at the end of the lesson (usually with an error message like Err #4 - BREAK IN LINE 12248"), remove the "write-protect tab"! The program is designed to store the student name and score on the disk at the end of each lesson; a tab covering the notch on the disk will not let the program "write" on the disk. If you get this message but no tab is on the disk, the switch inside the drive may be faulty.

I/O ERROR: The disk drive was physically unable to read the data on the disk. I/O errors can occur because the disk went through a magnetic field,

static discharge, or something actually damaged the media. This error message may also mean that the drive needs to be adjusted. (Try the disk on a different computer. If the same error appears, the problem is probably the disk, not the drive.) To replace the disk, please call for a return authorization number.

PRINTER WON'T PRINT: First check the printer slot number. (Take the cover off the computer and check the location of the printer card, which should be in slot 1 or slot 2.) Go to the Teacher's MENU, choose STUDENT RESULTS or PRINT LESSONS again. Be sure to enter the correct slot number when requested! Also, refer to your printer manual to be sure your printer is set up properly.

FILE FULL: If fifty student records have been stored on the disk, the fifty-first student will be able to boot the disk and run a lesson but will see a "FILE FULL. SEE YOUR TEACHER" message at the end of the lesson. This will alert you to the full file. Use the Teacher's MENU to go to STUDENT PLANNING. View or print out the records and then delete some of the records to clear space for more.

CREATE/CHANGE A LESSON does not work: If you think you have created a lesson but, in running the lesson, found your changes were not there, you probably did not go to the end of the lesson when creating it. When editing a lesson, type "END" after all the changes are made. The program will ask you a series of questions, including the important "SAVE THIS LESSON? Y/N." To save changes, you must answer Y to this question! Do not escape or reboot the disk before you do!

To receive another copy of this diskette, send the certificate below and your payment to Hartley Courseware, Inc., or to your local Hartley dealer. **YOU MUST RETURN YOUR OWNER REGISTRATION CARD BEFORE YOU CAN OBTAIN A SPARE DISK.**

BACK-UP DISK CERTIFICATE

THIS CERTIFICATE GRANTS THE ORIGINAL PURCHASER THE RIGHT TO BUY ONE (1) COPY OF THE DISK FOR BACK-UP USE.

NAME _____
ADDRESS _____
CITY _____
STATE _____ ZIP _____

PROGRAM 16-00
VERSION # _____

COST: \$10.00

(Add sales tax
where appropriate)

S/H: 2.00
\$12.00



Hartley Courseware, Inc.
Dimondale, MI 48821

Create Lessons-Advanced

Grade Level: 4th Grade-College

This program contains all of the special features of our **Create-Lessons** program (except large leatters) plus a lot of new features that secondary teachers will find really useful.

The program makes use of the full forty (40) character upper/lower case keyboard. You can enter data as fast as you want. Both hints and explanations can be used for incorrect answers. Lessons can also be developed in sections which allow students access to previous instruction frames or stories. You can page back and forth in any information section that is longer than one frame. Add frames, delete frames, print your lessons, make up your own reinforcers and much more.

This is a really simple-to-use program if you want to develop some of your own practice lessons or tutorials. Lessons may be stored on a data disk. (Make as many as you need!)

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