

# A2-ED1 Whole Brain Spelling

for the Apple II (Requires 48K memory and  
Applesoft in Rom)

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Communications Corp.

WHOLE BRAIN EDUCATION

presents

WHOLE BRAIN SPELLING

Design by:  
Susan Campanini  
David F. Manton

Program by:  
Joe Weintraub

Research by:  
Robert S. Hart

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Sublogic Communications Corporation  
713 Edgebrook Drive  
Champaign, IL 61820 U.S.A.

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## Acknowledgments

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## LOADING THE PROGRAM

WHOLE BRAIN SPELLING will run on any Apple II or Apple II+ computer with 48K of memory and Applesoft in ROM. The program was designed to make full use of the color capabilities of the Apple II+, and will work to best advantage on this system.

You should have no problems booting your system and running the program with this disk. If you continue to receive an error message when attempting to run any portion of this program, please note both the message and where it occurs in the program when referring this problem back to us.

Sublogic Communications Corporation warrants all media for a period of 6 months from the date of purchase. In addition, Sublogic Communications Corporation will replace any media that is out of warranty at a minimal charge.\* Sublogic Communications Corporation will extend this replacement service for a period not less than 10 years after purchase.

If you wish to return defective cassettes or disks, please return the MEDIA ONLY. We have established an efficient repair/replacement system which promises long run benefits to you. Returning the manuals will complicate the system and will raise shipping costs.

\*Example; replacement charges November 1, 1981: \$5.00 for a disk.

## INTRODUCTION



Pictured (l. to r.): Susan Campanini, David Manton, and Joe Weintraub.

WHOLE BRAIN SPELLING came together through the combined talents of four people. David Manton and Susan Campanini are the principal authors of the program, and creators of the Whole Brain Education approach to learning. The programming skills of Joe Weintraub were brought to bear during program development, and the research assistance provided by Robert S. Hart proved invaluable throughout the project.

Dave Manton grew up in Burma and India, where he spent several years in the Peace Corps after getting a degree in Chemistry from Ohio Wesleyan University. He has had experience teaching and counseling people of all ages and backgrounds. David has done graduate work in Electrical Engineering, and is a Ph.D. candidate in Educational Psychology at the University of Illinois. He presently holds a teaching position at the local community college.

Susan Campanini received her Ph.D. in French Language and Literature from the University of Illinois in 1975. She has had extensive experience with the PLATO educational system developed at the University, and has designed lessons and done research in many areas of Computer-Assisted Instruction.



Susan has been teaching since 1965, and is currently instructing students in Developmental English at the community college. She and David also conduct workshops in Whole Brain Education methods, and do freelance work as Educational Consultants.

Joe Weintraub is a Certified Data Processor with ten years of programming experience. A Senior Technical Analyst for GTE Data Services, Joe also informs us that he won 4th prize in the Florida West Coast Spelling Bee at age 13.

Robert Hart (not pictured) is Associate Director of the Language Learning Laboratory at the University of Illinois. He was appointed Director of the PLATO Humanities site in 1975, and is an Assistant Professor in the School of Humanities at the University. His current research interests include artificial intelligence and the development of computer-simulated models of human information processing.

A2-ED1 WHOLE BRAIN SPELLING is the first Educational Software package to be released by Sublogic Communications Corporation. We believe that an educational program should be interesting as well as instructional. We would also contend that a program should take full advantage of the inherent capabilities of the system it was developed on.

WHOLE BRAIN SPELLING is the first educational program we've reviewed that has been able to meet, and even surpass, these requirements. Based on a solid foundation of sound learning techniques, WHOLE BRAIN SPELLING is also as entertaining as it is informative. A graded level of word list difficulty will challenge anyone from the neophyte to the most inveterate Scrabble player. The program makes effective use of the color graphic capabilities of the Apple II computer in order to enhance and emphasize the visual aspects of the learning process. In short, it makes learning fun.

We feel that this program can be a useful adjunct to the more traditional classroom methods being employed today. Children and adults alike, in the home or the classroom, should find it a useful (and pleasurable) tool for the development of improved spelling skills. And if you have some fun along the way, remember this; there is no law that says learning has to be dull.

## LESSON STRUCTURE

The diagram below shows the parts of the lesson. The arrows indicate how you can move around in the lesson.

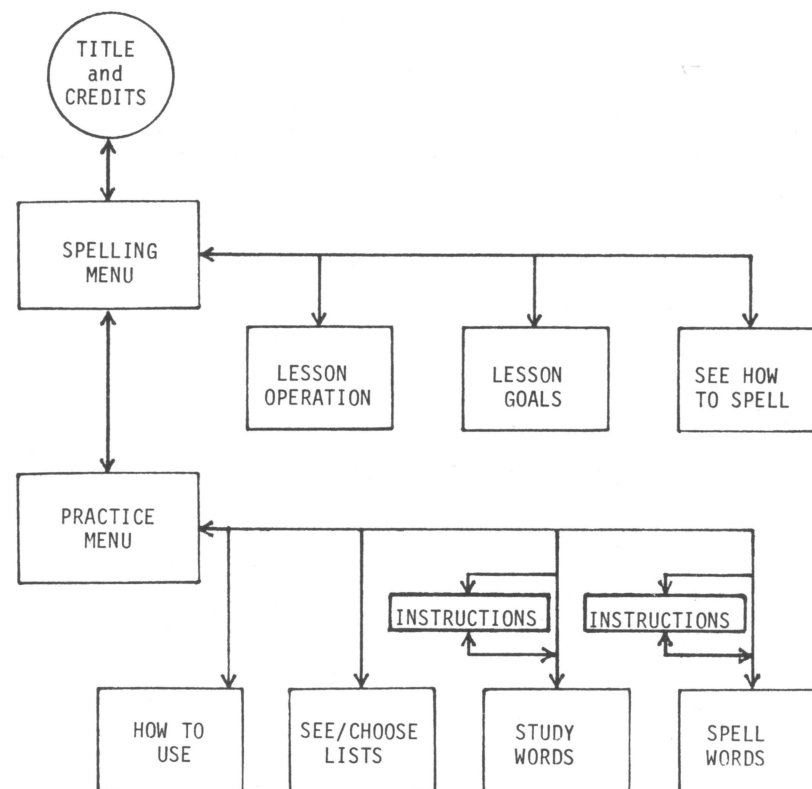


FIGURE 1

## LESSON OPERATION

We have designed this lesson to be easy for you to use. LESSON OPERATION, (choice A on the SPELLING MENU), tells you how to use the APPLE computer to do this lesson.

Moving around in the lesson

You choose where you want to go in the lesson and when. You are almost always free to leave any part of the lesson by returning to a menu. You can repeat any part of the lesson by choosing it again from a menu. Changes on the screen happen under your control. You move at your own pace.

Menus

There are two menus in this lesson (see Figure 1): the SPELLING MENU and the PRACTICE MENU.

From the SPELLING MENU, you may go directly to:

- (A) LESSON OPERATION
- (B) LESSON GOALS
- (C) SEE HOW TO SPELL
- (D) PRACTICE MENU

or you may return to the title page.

From the PRACTICE MENU, you may go directly to:

- (A) HOW TO USE
- (B) SEE/CHOOSE LISTS
- (C) STUDY WORDS
- (D) SPELL WORDS

or back to the main menu.

Keys to press

At the bottom of each screen there are instructions about what keys you can press and what will happen when you press them. If a key is "advertised" as active, it will work. There are no "surprise" keys that do something strange when pressed accidentally. The name of the key is shown in brackets `< >`, and what happens is described briefly next to the brackets. For example: `<1>` menu - means when you press the 1 key you will go back to the menu.

The keys you'll be using in this lesson include:

`<1>`

`<2>`

`<return>`

`<escape>`

`<space bar>`

`<a>` through `<d>` for entering choices

the number keys for choosing lists

`<a>` through `<z>` for typing spelling words

`<←>` (the left arrow key) for erasing

Instructions

The two spelling exercises, STUDY WORDS and SPELL WORDS, each have their own separate instructions. These instructions are available before and during the exercise. If you have already read them carefully and understand how to do the exercises, you can choose to skip the instructions and go directly to the exercises.

Convenience

The keys you'll use most in operating this lesson are keys which are easy to find and familiar to APPLE computer users.

Most screens have been labeled by title and page numbers. For example: LESSON GOALS 1 of 5

Display formats, location of instructions on the screen, and key functions are consistent for ease of use.

A color-tuning guide has been provided, as the last screen of LESSON OPERATION, for adjusting your monitor.

## LESSON GOALS

LESSON GOALS, (choice B on the SPELLING MENU), tells you briefly what the purpose of this lesson is.

The goals of WHOLE BRAIN SPELLING are:

- \* to develop visual imaging skills for spelling
- \* to offer 200 ten-word lists for spelling practice
- \* to diagnose and indicate areas for self-correction

WHOLE BRAIN EDUCATION is an approach to learning that combines "left brain" and "right brain" kinds of thinking. Along with your left brain abilities to reason, to apply rules, and to learn steps for doing tasks-you can also use your imagination, your right brain abilities to create and remember internal pictures, to trust your feelings and intuitions of knowledge.

WHOLE BRAIN SPELLING is intended to help you develop and use your internal visualization skills for improving spelling. Many words in English are spelled very differently than they sound. For example, the ough in the word "thought" sounds just like the aw in the word "thaw", but they look and are spelled very differently. Research (Simon, H. and Simon, D., 1973; Simon, D., 1975) has shown that good spellers use an internal image to see if a word they've spelled looks right. This visual information isn't a replacement for knowing how the word sounds, what it means, or what general rules are useful for spelling English. The visual information makes the crucial difference, however, for correctly spelling words that are not phonetic (ie., in which spelling and sound differ).

WHOLE BRAIN SPELLING is intended to teach you a method for learning HOW to spell. It is not primarily intended to teach you the 2,000 words in the lesson, or any other set of words. However, as you learn to focus your visual awareness, and practice using mental images to spell these 2,000 words, they will become more familiar and easier for you to spell correctly. You can use the method of making internal pictures of words in order to spell any words you see anywhere.

The lesson will be most useful for children already familiar with reading and writing (approximately fourth grade), high school students, and adults who wish to improve their spelling skills.

## SEE HOW TO SPELL

SEE HOW TO SPELL, (choice C on the SPELLING MENU), explains the idea of internal visualization for spelling--seeing words like pictures inside your head.

The text is presented in large colored letters so that it will be easy to read and understand. Color contrast within the sentences helps you to focus on the main ideas. The drawings illustrate how pictures--and words as pictures--can be imagined in your mind's eye.

The screen that has the word SUCCEED in a box allows you to play with the way a word looks. You can change the color and the case (capital or small letters), show double letters highlighted, or show the word one letter at a time. You can change the word as many times as you like by using keys <a> through <d>. It's also fun to change color or case very fast by holding down the <repeat> key while pressing <a> or <c>.

*This screen gives you an idea of how you can play with word pictures in your imagination.*

It also shows some of the ways word pictures will look in the STUDY WORDS exercise later in the lesson.

## PRACTICE MENU

PRACTICE MENU, (choice D on the SPELLING MENU), takes you to the second menu in the lesson. From the PRACTICE MENU, you can find out HOW TO USE the exercises. You can go to SEE/CHOOSE LISTS to select a word list from any of the 200 ten-word lists. (See WORD CHOICE CRITERIA in this manual to find out how the lists were compiled). Your current list number is shown at the bottom right of this menu. Each time you boot the disk, the current list number will be #1 until you change it in SEE/CHOOSE LISTS. You can also reach STUDY WORDS and SPELL WORDS from this menu. These exercises allow you to study and spell each word on your current list.

All parts of the lesson which you reach from the PRACTICE MENU will return to this menu. You can always return to the main SPELLING MENU from the PRACTICE MENU.

## HOW TO USE

HOW TO USE, (choice A on the PRACTICE MENU), gives you an explanation of what the practice exercises are like and how you can use them to improve your spelling.

You can work with word lists three ways:

1. SEE/CHOOSE LISTS shows you a whole ten-word list at once and allows you to choose from 200 lists to study or spell.
2. STUDY WORDS allows you to study a list one word at a time, in large colored letters, by showing and erasing each word as you make a mental picture of it.
3. SPELL WORDS allows you to see and type each word on a list. If you make a spelling error, the program will show you which parts of the word you need to look at more carefully.

Although you can do the different parts of this lesson in any order you choose and skip easily from one part to another, *here's our suggestion for a good way to get the most out of the spelling practice exercises:*

1. Go to SEE/CHOOSE LISTS  
Scan through lists until you find one you'd like to spell. Return to the menu.
2. Go to STUDY WORDS  
Show and erase each word enough times to get a clear picture of the word in your mind's eye. Return to the menu.
3. Go to SPELL WORDS  
Look carefully at each word, checking if your inner image of it is right. Type the word you saw. Study your answer to see if it looks right. Use the correction mark-up to see what letters are correct. Look at the highlighted letters the second time to strengthen your inner image of the whole word. Keep working until you've spelled the word completely correctly. Look at your correct word, and remember how it looks.

## SEE/CHOOSE LISTS

SEE/CHOOSE LISTS, (choice B on the PRACTICE MENU), allows you to display an entire 10 word list on your screen at once.

You can flip back and forth (using the <escape> and <return> keys) through 200 lists to find one you'd like to study and spell.

*The word lists are also included in this manual (WORD LIST RECORD) for rapid scanning and keeping track of your progress.*

Lower numbered lists are easier. Higher numbered lists are more challenging. You can also follow the screen instructions for entering a list number. The number you choose will be displayed directly, and then you can still flip back and forth some more or choose to enter another number.

When the list you want is on your screen, return to the menu to study or spell it. Your current list number will be saved (it is shown at the bottom right of the PRACTICE MENU screen).

For very fast scanning (backwards or forwards), use the <repeat> key along with <escape> or <return>.

Every 25 lists you'll need to wait a few seconds for the disk to spin.

Remember that whenever you re-boot the disk, the current list number starts back at #1.

## STUDY WORDS

STUDY WORDS, (choice C on the PRACTICE MENU), is an exercise for studying each word on your current list. This exercise will help you make pictures of the words in your mind's eye.

As you show and erase each word many times (by pressing the <space bar> ), the "word picture" will change in ways that are interesting to see.

Words change color, cycle through four colors, or "rainbow." Double letters are highlighted. The word may be written in capital or small letters. It may appear one letter at a time. It may flash on and off, or flash from one color to another.

*The idea behind the changing display of each word is to focus visual awareness on the LOOK of the word and to make word study interesting and enjoyable.*

Each time through a given list, the words will appear in a different order. The visual changes to the words are also randomly selected, for variety and interest. The timing of flashing displays has been carefully designed for comfortable pace and ease of study. You control the timing of showing and erasing each word, so that you can move at your own individual rate.

During the exercise, you can choose to see the full instructions again, and your place in the word list will be saved. If you return to the menu, your place will not be saved.

## SPELL WORDS

SPELL WORDS, (choice D on the PRACTICE MENU), is an exercise which allows you to show and type each word on your current list. You find out right away whether your spelling is correct. If not, you'll see what part of the word to focus on, and you can spell it again.

The spelling word is displayed in large letters in a box. You can look at the word for as long as you like. When the <return> key is pressed, the word will erase and a prompt ( ) below the box indicates where your typing will appear in large letters. The left arrow key <←> is available for erasing typing errors. When the <return> key is pressed again, your answer is compared to the correct spelling of the word.

If you have spelled the word correctly, it will be moved into the box. Your correct word will be shown in a rainbow of colors. You can then choose to spell the word again or continue to the next word on the list.

If you have misspelled the word, colored boxes will overwrite areas of your answer that are not completely correct. A caret (^) indicates missing letters. (See Figure 2 for an illustration of the correction mark-up.) When the <return> key is pressed again, the word is displayed once more in the box, and the parts of the word that you had trouble with are highlighted in orange. This highlighting is intended to help focus your attention: you correct yourself when you type the word again. You can make as many attempts as you like, or skip ahead to the next word at any time (except when the answer prompt is on the screen).

Each time through a given list, the words will appear in a different order. If you choose to read the full instructions during the exercise, your place in the word list is saved. If you return to the menu, your place is not saved.

This lesson features a special answer checking technique. The program analyzes each individual spelling, so that the correction mark-up and the highlighted orange letters provide specific feedback and focus for self-correction. Feedback is given in visual form so that your attention to the task remains visual throughout.

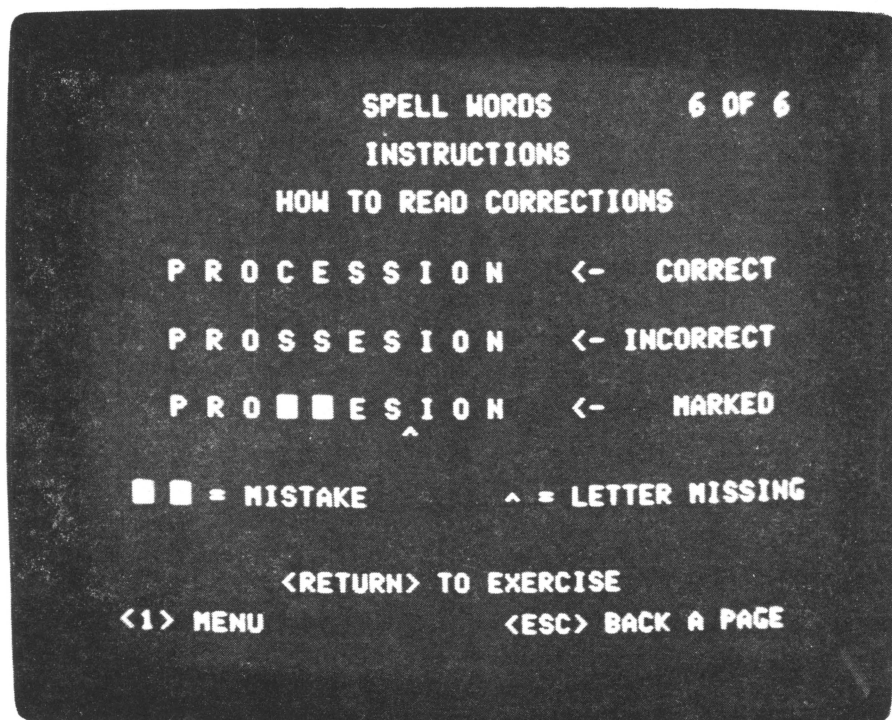


FIGURE 2



This exercise is not a spelling test. It is for learning, practice, and enjoyment. No scores are kept. You can use the WORD LIST RECORD in this manual to check off lists that you've learned to your own satisfaction.

## WORD CHOICE CRITERIA

There are 2,000 spelling words in this lesson. They are organized into 200 ten-word lists graded for difficulty.

Systematic research and sound personal judgment based on teaching experience were combined to select these spelling words.

Because the lesson teaches a visual technique, the vocabulary level of the words is not as important as the level of actual spelling difficulty. Of course, it is also helpful to know how a word sounds and what meaning (or meanings) it conveys. However, for the purpose of internal visualization, words were chosen that are the most commonly taught in grade school and high school spelling materials and whose level of spelling difficulty has been identified and measured systematically.

Most of the words in the lesson were selected from the New Iowa Spelling Scale (see REFERENCES). The lists are arranged in order of increasing spelling difficulty.

- \* The easier lists (1-72) include words spelled correctly by 30-60% of 5th graders in the Iowa nation-wide study.
- \* The medium lists (73-121) include words spelled correctly by 50% or fewer of 7th graders.
- \* The difficult lists (122-164) include words spelled correctly by 50% or fewer of 8th graders.
- \* The "super challenge" lists (165-200) include words with very low accuracy percentages for 8th graders in the Iowa study, words taken from adult spelling improvement texts, and interesting and difficult words we have used in our adult classroom teaching.

There are also a few "fun lists", included within each difficulty category, that have a theme such as tree names, science terms and the like.

## NOTE TO EDUCATORS

This WHOLE BRAIN SPELLING lesson is specifically aimed at developing internal visualization skills for spelling. It is not intended as a comprehensive spelling curriculum. The visual approach is a supplement rather than a replacement for classroom activities that involve auditory skills, word meanings and sentence context, and performance evaluation.

## REFERENCES

- Gates, Arthur, I., A List of Spelling Difficulties in 3876 Words. New York: Bureau of Publications, Teachers College, Columbia University, 1937.
- Greene, Harry A., The New Iowa Spelling Scale. Iowa City, Iowa: State University of Iowa, Bureau of Educational Research and Service, 1954.
- Simon, Dorothea P. and Herbert A., "Alternative Uses of Phonemic Information in Spelling", Review of Educational Research, 1973, 43, 115-136.
- Simon, Dorothea P., Spelling--A Task Analysis. Pittsburgh, Pennsylvania: Pittsburgh University Learning Research and Development Center, 1975.

## WORD LIST RECORD

gem	1	else	heavy	magic
among		intend	rescue	link
blush		false	nature	artist
soil		infant	island	extra
confuse		rough	strike	alley
brain	3	force	divide	favor
pirate		content	insult	polite
create		circus	towel	detail
cough		pretend	huge	campus
speech		escape	idea	mild
mental	5	whale	habit	odor
avenue		text	group	organ
beard		frozen	oxen	moss
admire		select	pace	noble
secret		leaf	recess	result
twist	7	allow	fought	drawn
value		bloom	control	insist
submit		perfect	profit	transit
loose		curl	fond	human
arrest		stair	evil	female
proof	9	aware	their	level
image		action	there	herd
defend		scarf	comfort	gown
cellar		widow	fury	harden
mineral		though	series	purse
shook	11	respect	angle	dairy
shock		velvet	bundle	curve
reduce		stoop	biggest	solid
omit		powder	perfume	foolish
naked		maiden	perform	cosmic

## WORD LIST RECORD

advice advise prevent empire display	13	topic honest film import degree	14	cheerful meant balance royal vow	talent swear compose concert giant
camel shrew buffalo dolphin crocodile	15	gazelle ferret reindeer gorilla cougar	16	sheer legal hardware goose paste	purple question olive nerve relative
vanish kingdom supply polar loss	17	area agreed boast period couch	18	solve frame context abuse produce	empty eager inspect trial hungry
fancy depend carbon mayor avoid	19	safety whisper swept compare gaining	20	signal library heaven growth parent	rainy orchard needle replied violin
kitchen streak postage lodge margin	21	excited angel bowl perhaps crept	22	written sought forward consent writing	advance promise provide engine birth
install tough troop hobby faint	23	direct caught memory beneath rooster	24	wisdom theme combine fruit shelter	limited hidden greater past passed

## WORD LIST RECORD

marigold violet zinnia lily bellflowers	25	lavender poppy peony lilac carnation	26	palace rarely onion native movie	revenge useful judge subject poem
prepare lonely manner argue excuse	27	amused blew cabbage permit counter	28	dawn zero sprinkle fourteen contact	contrast abroad project equal distance
throne honor illness famous impress	29	decide chief minute average science	30	wound voyage telephone swiftly choose	garage fresh silence latest haunted
greetings partner reflect puzzle object	31	ourselves music respond union visitors	32	kettle suggest popular listen manager	apartment although borrow pearl cried
except expect expert export darkness	33	couple youth slightly formed convince	34	adventure problem evening ditch edge	invention total husband field department
oak mulberry spruce hemlock walnut	35	hickory chestnut willow birch beech	36	canyon mention bargain search wicked	temple compass gasoline shortage limb

## WORD LIST RECORD

hired guide parade recent offer	37	national offered regular usual kicked	involve suddenly possible major arrived	38	planet exchange animal blouse peanut
cousin daughter sparrow freeze contain	39	address public elect eastern interested	tight hopeful fearful information dew	40	capture modern modest attack scarce
wilderness sword sweetheart circle gleam	41	friend shining liberty highly guard	ownership pause really ounce motion	42	notice riddle understood verse knee
surprise suppose potato maintain location	43	arithmetic express answer blanket pickles	crack smooth freedom consider adjust	44	primary entered dried inventory eighteen
through humble feather including improvement	45	different central misunderstanding automobile barrel	rising scratch watermelon thought climate	46	gentle computer service language hiking
grasshopper patch realize ordered movement	47	northern reliable vacation unknown knowing	joined stiff pledge medicine studied	48	plunge mainly explained afterward beyond

## WORD LIST RECORD

personal crowd dancing special flesh	49	continue flight adorable president elevator	enough discover elbow thumb throat	50	household fifteen important delight castle
debate checkers medical moment begged	51	salmon warehouse thirteen swimming climbing	fried ghost slavery likely handsome	52	glory passage passenger racing quarter
officer notion overdue musical remarkable	53	victory region knocked iodine surround	stopped prayer lying pleasure afraid	54	button piano crawl daily station
statement flood correct adopted progress	55	congress driving toilet holiday factory	figure desert dessert canary monster	56	banana ruin mood whistle theater
complain further shoulder section laughter	57	happened guest pattern purely refreshments	otherwise mountain represent village tunnel	58	investment suitable poetry altogether blackboard
plains court sorrow flatter account	59	property downstairs treasure hoping hoe	finished defeat capable message romantic	60	wrap waste thread company fright

## WORD LIST RECORD

61	delivery monthly broad plantation course	statue flies addition presented double	62	protect echo treatment howling fifth	carpenter monument rye worst wrist
63	winning cities furnish simply largely	healthy happiest parties sentence pasture	64	satisfaction quietly obtain novel reputation	often muddy noise remembered remainder
65	type voice knives juice prepared	bridge piece crew slipped fountain	66	advantage preserve tickled hurried fasten	canoe metal route worried clothes
67	choice geography fuel ought several	seek linen headquarters package quickly	68	nickel restrain poison blossom smiling	fixed prospect traffic fairy channel
69	membership sandwich worthy selfish peaceful	ribbon praise burst snowy freely	70	proclaim fetch midnight sleeve payable	mixture repeated population princess faith
71	matches shipped palm request prompt	mistaken ski review mittens mirror	72	measure video whole dragons dungeon	canine feline cuddle chirp aroma

## WORD LIST RECORD

73	element proposition evidence compensation choir	priest arctic phase college conceal	74	dropped profession effort complaint horrible	inquired truly column injury discuss
75	eight disease proceed error commerce	conclusion humor installed finance director	76	interior decided impression preparation estimate	compelled honored investigate treaty faithfully
77	composition describe imagine medicine practical	equally charity community icy horror	78	benefit accordingly confidence democratic inclined	marriage poverty employed basis chocolate
79	advertisement hospital threaten figuring wander	direction independent proportion eternal salary	80	exactly secretary audience certified dining	establish beginning cancel difficulty employee
81	treasurer families welfare severe earlier	disposition increasing medium frequent pleasant	82	challenge premium probable determine believe	attempted career governor habitat theory
83	caution educational material furnace political	parcel diameter enemies saucers rural	84	disagreeable preferred deny industrial moderate	quality funeral enable bearing attained



## WORD LIST RECORD

85	relieve satisfy disturb merit disappoint	electricity impossible mortal purpose generous	86	defective nephew organize dying included	mischief reality doubtless portion oversight
87	seriously employment removal position situated	anchor continent bonus argument resolution	88	telegraph whirl deposit neglected majority	liquid policy engagement creature wolves
89	signature pilgrim assemble convey cultivate	liberal forgotten witness whorl assistance	90	envelope republican announced consisted embrace	grief league tobacco various yourselves
91	guilty gossip photograph performance regularly	entertainment depth mystery manual practice	92	personality renewal luncheon gallop session	article succeed foul utterly typewriter
93	requirement planned curious spiritual feature	failure university visible customer constitution	94	absolute criminal liable splendid solution	fitted urgent victim width resistance
95	society acquire cruel dangerous superior	territory federal vacancy successful coupon	96	phrase annual instrument source actually	guessed idol honesty credited lecture

## WORD LIST RECORD

97	data judging length suggestion opinion	religious pitcher allowance banquet accurate	98	grateful justify offend delicate responsible	exclaimed anxious experiment research assumed
99	breathe existing assign beautiful contribute	knowledge survey trimmed valuable boundary	100	character expectation admiration guidance jewel	ceiling groceries carnival exceed extensive
101	chimney expedition cashier subscription vegetable	uncertain involve carriage excess opportunity	102	notify occupy proceeding celebrate presume	entitled revolution examine ambassador bracelet
103	profitable destination easier scenery exist	budget communicate advisable previous sincere	104	sentiment permitted bouquet coarse accuse	gradually indifferent introduced strength excitement
105	blizzard expense business graduation supreme	process messenger memories entrance scene	106	permission cabinet bicycle combination insurance	percentage amendment calendar brief sketch
107	qualified reference progressive ancient cease	chemistry activities height institute journey	108	agency prettiest neither dramatic remedy	appreciate circular accomplish grabbed historical

## WORD LIST RECORD

109	instance structure stepped feeble inspire	impulse confusion destruction sacred approval	loyal professor expression auditorium cedar	110	cooperate probably readily neighbor publicity
111	generally security practicing publication manufacturer	original equipment balloon autumn examination	senator desirable engineer assistant promptly	112	dictionary rejoice pronounce century mistress
113	skinned domestic reception magazine literature	encourage passion register particular owing	desperate appearance declaration patient naughty	114	opposition paragraph despise endure scientific
115	frighten possibly losing patent distribute	disappear apparent attendance document atmosphere	presently awfully construction harmony laundry	116	terrible system wealthy unsatisfactory favorite
117	transportation filing volume weird method	gentlemen moral discovery quotation purchased	instruction mercy listening quarrel locality	118	multiply operate democracy observation decent
119	belief considerably justified umbrella sense	vary quantity influence poultry literary	attitude headache issues violence stomach	120	tailor investigation lawyer accompany landscape

## WORD LIST RECORD

121	missionary positive muscle destroy debt	alien conquer government happily laughed	122	maturity remittance shepherd procession particularly	fierce politics foreign solemn bough
123	warrant scheme cathedral transferred mysterious	official numerous reasonably pursue heir	124	legislature genuine function communication ignorance	honorable achievement commercial administration persuaded
125	circumstance permanent counsel council judgment	utilize unfortunately earnest discussion temperature	126	definite analysis dignity substitute grieve	available consequence majesty liquor inclusive
127	emergency immense continually execute intimate	approximate yield marvelous representative sheriff	128	military prosperous fifteenth accompanied distribution	possess freight interfere squirrel bosom
129	innocent whether weather ridiculous scarcely	cognition tongue necessary mourn obvious	130	occur occurred recognition excellent patience	hasten gymnasium exhausted liability glimpse
131	galvanized furious cocoon illustrate circuit	perish laboratory itemized universal virtue	132	competent develop sympathy anticipation crisis	suspicion glorious attorney conference loyalty

## WORD LIST RECORD

133	mansion luxury independence enclosure associate	134	initial faculty bureau inquiry sacrifice	exercise fatal abundant doubtful precious
135	chrysanthemum delphinium columbine bougainvillea hyacinth	136	instinct exhibit specific cafeteria bookkeeping	warrior scissors candidate trifle murmur
137	executive acceptance duplicate edition possession	138	capacity tradition nervous museum operetta	receive receipt partial occasion librarian
139	heartily leisure genius frequently comparison	140	completely journal vague colonel descend	tendency ambiguous croquet supplement delegate
141	deceive grammar authority contemplate maintenance	142	imagination enormous appetite incident merely	elapsed reparable irreparable probability exceedingly
143	experience familiar acknowledgment disgusted economy	144	bulletin weighed scholarship campaign tragedy	wretched satisfactorily certificate ninety mutual

## WORD LIST RECORD

145	sequoia gingko bristlecone juniper hawthorn	146	sycamore arborvitae eucalyptus bamboo mahogany	ornament referring quantities pursuit heavily	license chorus ignorant pigeon personally
147	compliment complement peril invitation vein	148	vain vane descriptive agriculture defense	curiosity extension orchestra recognize paradise	hesitate lightning ordinary conceive conception
149	originally peculiar kindergarten veil vale	150	delicious temporary affectionate cutest superintendent	straightened gracious athletic confirmation magnificent	inability condemn eliminate apology efficient
151	minimum remembrance sleigh prior exclusive	152	facilities abandon economic distinct preferred	presence formerly installation statistics canceled	cancellation niece multiplication offense refrigerator
153	patronage nonsense handkerchief legislation competition	154	perceive vicinity undoubtedly despair courteous	succeeded guardian consequently immortal elaborate	association comparatively courtesy merchandise respectively
155	hippopotamus rhinoceros iguana jaguar aardvark	156	elephant kangaroo zebra salamander alligator	reign similar professional explanation favorably	absence disappointment effective precisely forehead

## WORD LIST RECORD

157	inhabitant characteristic triumph naturally multitude	oppose qualities recommendation committed petition	158	variety physician unusually definition supplying	correspond inexperience especially assurance embroidery
159	mathematics regretting shield pressure extremely	accommodate doctrine evidently positively institution	160	interrupt tremendous equipped necessity omitted	committee essential unnecessary development successfully
161	congratulations illustration artificial mechanical regularity	seize previously exceptional adequate drowned	162	preliminary tournament obligation civilization engineering	acceptable confidential indicated restaurant skiing
163	acquaintance dormitory politician organization eventually	description cordially immediate registration sincerely	164	separate distinction preference encouraging demonstration	establishment responsibility corporation possibility deceit
165	accumulate emphasize biscuit rhyme obedience	shriek relevant specimen siege precede	166	subtle temperament symbol assassin criticism	nuisance bachelor gauge livelihood innocence
167	anonymous apparatus questionnaire indispensable hypocrisy	vengeance rhetoric optimism vacuum rhythm	168	parallel technique amateur miscellaneous conceivable	prejudiced environment changeable erroneous occurrence

## WORD LIST RECORD

169	irresistible outrageous perseverance syllable tyranny	electronic technological conscious requisition epistle	170	continuous enthusiasm desirous sensibility inevitable	opportunities accommodation collateral intimacy extraordinary
171	privilege mischievous ascertain substantial allusion	disillusion unanimous necessarily mortgage philosophy	172	realization champagne fortunately countenance gratitude	lieutenant sorority luxurious luxuriant bankruptcy
173	anxiety distinguish efficiency thoroughly parliament	hygiene witticism voucher financial wrought	174	excessive conscience enthusiastic definitely inconvenience	ordinarily abyss abysmal exceptionally prominent
175	intellectual experiential memorandum sufficient foliage	cylinder guarantee specifications affidavit discrimination	176	temporarily pageant hitherto fascinating controversy	embarrassment debtor indebtedness occasionally initiation
177	exquisite psychology materialistic flourish aisles	discipline pamphlet convenient endeavor individuality	178	exhibition fraternity inquiries frenetic affectionately	convenience esteemed immediately existence existential
179	correspondence indefinitely rheumatism sergeant pronunciation	incidentally nucleus drudgery auxiliary conscientious	180	diphtheria colloquial exhilaration strenuous influential	notoriety buoyant dietitian sacrilegious camouflage

## WORD LIST RECORD

181	chauffeur omniscient conqueror pneumatic carburetor	182	symmetry argumentative encyclopedia susceptible illegible	183	superfluous fallacious reconciliation perennial mayonnaise	184	spontaneity ubiquitous philately secede maneuver	185	eroticism enzyme irrepressible wryly psalms	186	intercede pneumonia apostrophe canoeing esophagus	187	inauspicious utilitarian syllogism incandescent hydroponics	188	inopportune rhizome syllabification spectroscopy porphyry	189	anthropology archaeology sociology geographical geological	190	linguistics philology biochemical cartography cybernetics	191	extraterrestrial cosmological planetary satellite interstellar	192	constellations meteorite zodiac suborbital astrological	193	curriculum skein acquiescent prophetic thoroughfare	194	metamorphosis archaic reminiscent physiological depreciation	195	sarcophagus efficacious mnemonic diuretic holography	196	concatenation algorithm randomization hexadecimal hyperbolic	197	sphincter cerebellum abdominal lymphatic eustachian	198	astronomy nebulae odysseys topography meteorologist	199	connoisseur assassination bureaucrat silhouette charisma	200	onomatopoeia siphon ecclesiastic surgeon cholorophyll	201	gyroscope counterfeit zucchini hieroglyphic phenomenology	202	peripheral asynchronous recursion paradigmatic asymmetrically	203	anatomical thymus skeleton mucus appendectomy	204	elliptical hemisphere equatorial astrophysicist galaxy
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## WORD LIST RECORD

193	pedagogical empirical motivational holistic educator	194	professorial pedantic esoteric processes neurological	195	amphibian crustacean mollusc marsupial mammalian	196	opossum wallabies armadillo cetacean macaque	197	philodendron horticultural euphorbia cereus pyrrhosia	198	angiosperm gymnosperm deciduous taxonomical ecological	199	omnipotent messianic romanticism apocalypse medieval	200	enlightenment mythological surrealism existentialism narcissism	201	methodology correlation attitudinal visualization synchronize	202	orthography phoneme univocal transliteration alphabetical	203	semantic syntactic idiosyncracies homonym hypothetical	204	potentiality consciousness psychosynthesis hypnotherapy extrasensory	205	margay jaguarundis chinchilla felinity veterinarian	206	ideographic morphological inflectional grammatical intonation	207	aggregation morphemic amgiguities permutation misspelled
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Communications Corp.  
713 Edgebrook Drive  
Champaign, IL 61820  
(217) 359-8482  
Telex: 206995