

POWER ZONE™ 2000

USER'S MANUAL



VTECH®

Dear Parent:

At VTech® we know that a child has the ability to do great things. That's why all of our electronic learning products are uniquely designed to develop a child's mind and allow them to learn to the best of their ability. Whether it's learning about letters, numbers, geography or algebra, all VTech® learning products incorporate advanced technologies and extensive curriculum to encourage children of all ages to reach their potential.

When it comes to providing interactive products that enlighten, entertain and develop minds, at VTech® we see the potential in every child.

CONTENTS

INTRODUCTION	1
PREPARATION	2-5
<i>MOUSE CONNECTION</i>	<i>2</i>
<i>PRINTER CONNECTION</i>	<i>2</i>
<i>POWER SOURCE</i>	<i>2</i>
<i>BATTERY INSTALLATION</i>	<i>2</i>
<i>KEYBOARD BATTERY INSTALLATION</i>	<i>3</i>
<i>BATTERY NOTICE.....</i>	<i>3</i>
<i>BACKUP BATTERY INSTALLATION</i>	<i>3-4</i>
<i>AC ADAPTOR CONNECTION.....</i>	<i>4</i>
<i>ON/OFF BUTTON</i>	<i>4</i>
<i>RESET BUTTON</i>	<i>4</i>
<i>AUTOMATIC SHUT-OFF</i>	<i>4</i>
<i>VOLUME SWITCH</i>	<i>4</i>
<i>CONTRAST SWITCH.....</i>	<i>5</i>
MOUSE, KEYBOARD AND CURSOR CONTROL	5-9
<i>MOUSE</i>	<i>5</i>
<i>CLEANING THE MOUSE</i>	<i>5</i>
<i>KEYBOARD</i>	<i>6</i>
<i>SPECIAL KEYS</i>	<i>6-8</i>
<i>CATEGORY BUTTONS</i>	<i>8-9</i>

DESCRIPTION OF ACTIVITIES 10-35

ACTIVITIES WITH LEVELS AND 2-PLAYER MODE 10

GENERAL DISPLAY 11

LANGUAGE ARTS 11-13

WORD CHALLENGE 11

COMPREHENSION 11

SECRET WORD 11

GRAMMAR QUIZ 12

PARTS OF SPEECH 12

WORD SEARCH 12

CROSSWORD 12

SYNONYMS 12

ANTONYMS 12

WORD PUZZLE 13

SOUND ALIKES 13

SENTENCE SHUFFLE 13

CREATIVE WRITING 13

MATHEMATICS 13-16

MATH FUN 13

TIME OUT! 13

COMMON GROUND 14

FACTOR REACTOR 14

COORDINATES 14

SUM IT UP 14

MINUS MADNESS	14
MULTIPLICATION	14
DIVISION	14
ALGEBRA ATTACK!	15
GEOMETRY	15
GRAPH IT!	15
TIC TAC 18	15
MAGIC 24	15
THIS TO THAT	15
FRACTION ACTION	16
NUMBER PATTERNS	16
MATH CHALLENGE	16
<i>TRIVIA CHALLENGE</i>	<i>16-17</i>
UNDERSEA LIFE	16
ANIMAL LIFE	16
ENTERTAINMENT	16
MYSTERY EVENTS	17
TECHNOLOGY	17
SPACE DISCOVERY	17
GEOGRAPHY	17
BIOLOGY	17
KNOWLEDGE CHALLENGE	17

LOGIC & GAMES	18-19
ROBOT HUNT	18
3D RACE RALLY	18
3D TIC TAC TOE	18
TREASURE HUNT	19
DISC CHALLENGE	19
3D MAZE	19
ART STUDIO	20
CARD MAKER	20
PICTURE MAKER	20
PERSONAL OFFICE.....	20-33
WORD PROCESSOR	20-24
TELEPHONE BOOK	24
SCHEDULER	25
SPELL CHECKER	25
CALENDAR	25
CONVERSION PAD	25
CALCULATOR.....	26
LOGO	26-32
LOGO BEGINNER.....	32
LOGO INTERMEDIATE	32
LOGO ADVANCED	32
MONEY MANAGER.....	33

<i>HOMEWORK LAB™</i>	33
DATA PAIRS 1	33
DATA PAIRS 2	33
TEST TRAINER 1	33
TEST TRAINER 2	33
<i>SYSTEM SETUP</i>	33-35
FILE CABINET	33
QUICK TAG	33
SOUND EFFECT	33
BACKGROUND MUSIC	34
DATE & TIME	34
SCORING STATISTICS	34
PRINTER SETUP	34
TROUBLESHOOTING FOR PRINTER ERROR	34
TOOLS	35
GENERAL	35
DISPLAY	35
HOW TO USE AN EXPANSION CARTRIDGE ...	35-36
ACTIVITY CARTRIDGES	36
SCORING.....	37-38
<i>SCORING CODE</i>	37
<i>VTECH® Power Zone™ 2000 ACTIVITIES:</i>	38
CARE AND MAINTENANCE	39

CAUTION-ELECTRIC TOY FOR TOY TRANSFORMER

- Not recommended for children under 3 years of age. As with all electrical products, precautions should be observed during handling and use to reduce the risk of electric shock.

Input: AC120V 60 Hz 9W

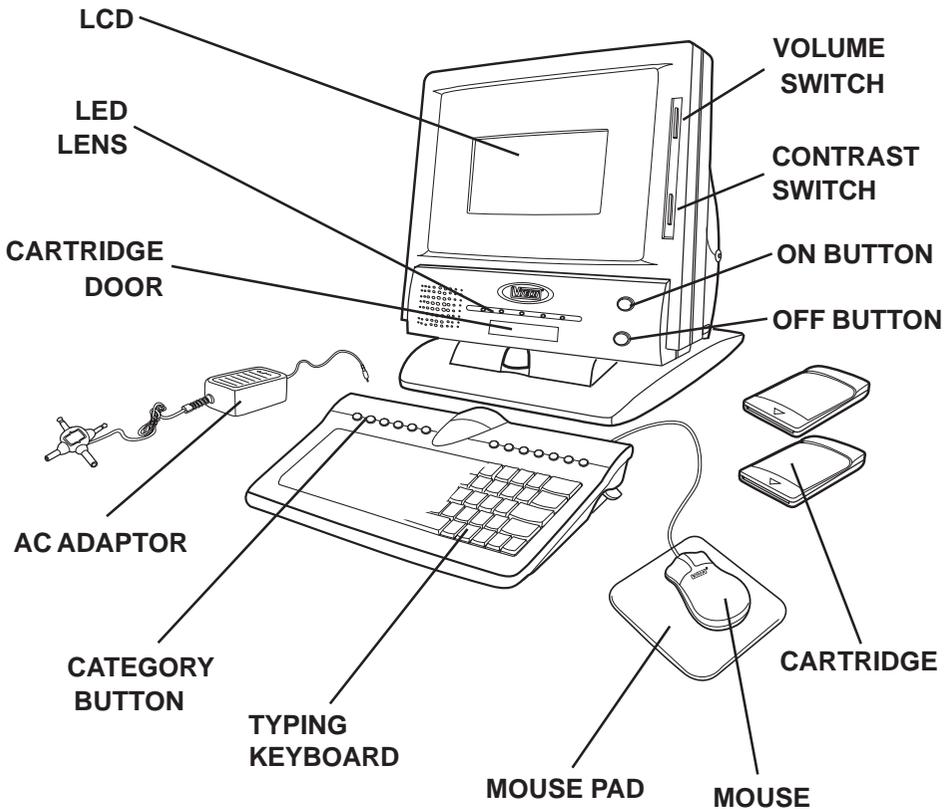
Output: DC 14.5V 4.5 VA

- The adaptor should be periodically examined for conditions that may result in the risk of fire, electric shock, or injury to persons (such as damage to the output cord, blades, housing, or other parts). In the event of such conditions, the transformer should not be used until properly repaired.

INTRODUCTION

Thank you for purchasing the **VTECH® Power Zone™ 2000** learning product! We at **VTECH®** are committed to providing the highest quality products to entertain and educate your children. Should you have any questions or concerns, please call our Consumer Services Department at 1-800-521-2010 in the U.S. or 1-800-267-7377 in Canada.

The **VTECH® Power Zone™ 2000** is an electronic learning aid. This unit offers a wide range of exciting and educational activities for interactive learning! The unit's 77 built-in activities and computer skills tools to encourage learning in an entertaining and effective manner.



PREPARATION

MOUSE CONNECTION

1. Make sure the unit is turned **OFF**.
2. Locate the mouse jack on the back of the keyboard.
3. Plug the mouse into the unit's mouse jack.
4. Turn the unit **ON**.

PRINTER CONNECTION

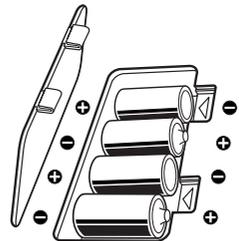
1. Make sure both the **VTECH® Power Zone™ 2000** learning aid and the printer are turned **OFF**.
2. Locate the printer port on the right side of the **VTECH® Power Zone™ 2000** learning aid.
3. Connect the printer plug to the printer port.
4. Turn **ON** the **VTECH® Power Zone™ 2000** learning aid and the printer.
Please refer to Printer Setup for the list of printers that the **VTECH® Power Zone™ 2000** learning aid supports.

POWER SOURCE

The **VTECH® Power Zone™ 2000** learning aid can be operated by using 4 "C" size batteries or a 14.5V 4.5VA center-positive **+ → -** adaptor.

BATTERY INSTALLATION

1. Make sure the unit is turned **OFF**.
2. Locate the battery cover on the bottom of the unit and open it.
3. Insert 4 "C" batteries as illustrated.
DO NOT USE RECHARGEABLE BATTERIES in this unit.
4. Close the battery cover.

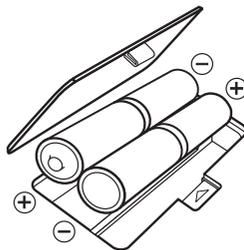


KEYBOARD BATTERY INSTALLATION

1. Locate the battery cover on the bottom of the keyboard and open it.
2. Insert 4 "AA" batteries as illustrated.

DO NOT USE RECHARGEABLE BATTERIES in the keyboard.

3. Close the battery cover.

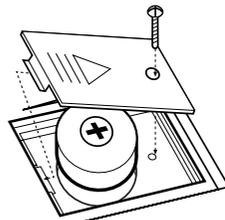


BATTERY NOTICE

- Install batteries correctly observing the polarity (+ , -) signs to avoid leakage.
- Do not mix old and new batteries.
- Do not use batteries of different types together.
- Remove exhausted or new batteries from the unit when you are not going to use the unit for a long time.
- Do not dispose of the batteries in fire.
- Do not attempt to recharge ordinary batteries.
- Do not short-circuit supply terminals.

BACKUP BATTERY INSTALLATION

- Make sure the unit is **OFF**.
- Locate the backup battery cover on the bottom of the unit and open it.
- Insert 1 CR2025 battery as illustrated.
- Replace the battery cover.
- Turn the unit **ON**.
- Remove the plastic strip from the backup battery. (During the first time installation only) To avoid damage to the unit from leaky batteries, replace the backup battery at least once a year.



NOTE: While replacing the backup battery, the 4 "C" size batteries must be kept in the unit or the unit must be connected to the 9V adaptor while the adaptor is plugged in. If not, you will lose all the information stored in activities such as:

- | | |
|------------------|------------------|
| • Word Processor | • Money Manager |
| • Calendar | • Telephone Book |
| • Scheduler | • Data Pairs 1 |
| • Test Trainer 1 | • LOGO |

In addition to these activities, newly setup players' names and scores will also be lost.

NOTE: If the unit suddenly stops working or the sound becomes weak, turn the unit **OFF** for 15 seconds, then turn it back **ON**. If the problem persists, it may be caused by weak batteries. Please install a new set of batteries and try the unit again.

AC ADAPTOR CONNECTION

Use a 14.5V 4.5VA center-positive  adaptor.

1. Make sure the unit is **OFF**.
2. Locate the adaptor jack on the back of the unit.
3. Plug the adaptor into the unit's adaptor jack.
4. Plug the adaptor into a wall outlet.
5. Turn the unit **ON**.

NOTE: Do not leave the adaptor plugged in for long periods of time if the unit is not in use.



ON/OFF BUTTON



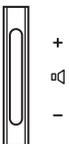
Turn **ON** your **VTECH® Power Zone™ 2000** learning aid by pressing the **ON** button on the front panel. The unit will show an opening animation and you can select a category or an activity. Turn the unit **OFF** by pressing the **OFF** button on the front panel.

RESET BUTTON

If the **ON** button is unable to turn on the unit or if the unit suddenly stops working, press **RESET** button on the bottom of the unit to restart.

AUTOMATIC SHUT-OFF

If there is no input into the **VTECH® Power Zone™ 2000** learning product for several minutes, the unit will automatically shut off to save power. After the automatic shut-off is activated, you need to press the **ON** button again. We recommend that you turn the unit **OFF** when not playing with it. If the **VTECH® Power Zone™ 2000** learning product is not going to be used for a long period, remove the batteries and unplug the adaptor.



VOLUME SWITCH

Adjust the volume by sliding the **Volume Switch** up to raise the volume and down to lower the volume.



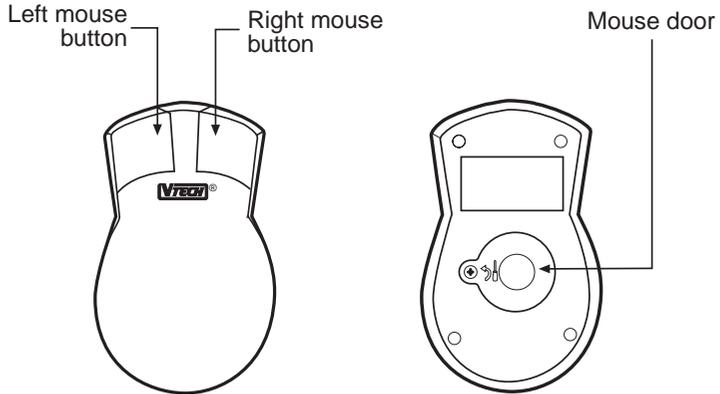
+
●
-

CONTRAST SWITCH

Adjust the image on the screen by sliding the **Contrast Switch** up for higher contrast and down for lower contrast.

MOUSE, KEYBOARD AND CURSOR CONTROL

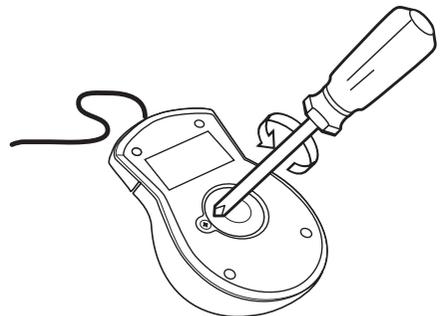
MOUSE



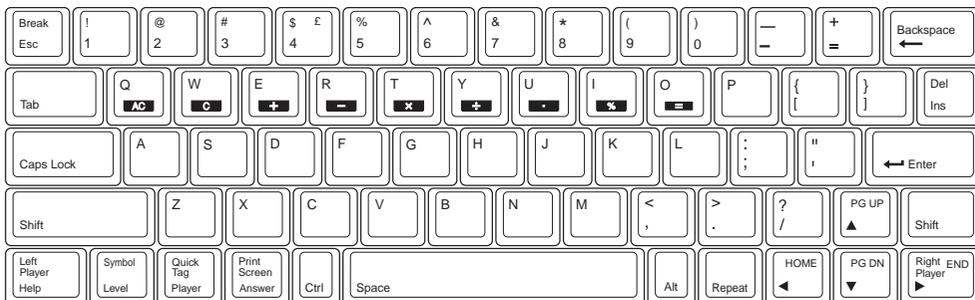
To use the mouse, push it in the direction that you would like the pointer  on the screen to move. To move the pointer to the right side of the screen, push the mouse to the right. To move the pointer to the left side of the screen, push the mouse to the left. To move the pointer to the top of the screen, push the mouse away from you. To move the pointer to the bottom of the screen, pull the mouse towards you. In most activities, pressing the left mouse button will have the same effect as pressing the **Enter** key.

CLEANING THE MOUSE

To clean the mouse, you need to open the cover on the bottom of the mouse by using a screwdriver. Twisting in the direction of the arrows will release the cover. Once the cover is removed, the mouse ball should be taken out and the contents inside the mouse should be cleaned with a dry cloth. The mouse ball should also be cleaned with a dry cloth. Once you have finished cleaning the mouse, place the mouse ball back into the mouse, place the cover back on the mouse and screw the cover back onto the mouse.



KEYBOARD



The **VTECH® Power Zone™ 2000** learning aid has a full alphanumeric keyboard with 65 keys.

Key labels

Some keys have two different functions. These keys are activated when choosing various activities. Please refer to the description of activities to learn about the dual-function keys.

SPECIAL KEYS

In addition to the alphanumeric keys, there are some special function keys:



Escape Key:

The **Esc** key allows you to exit the current activity. By repeatedly pressing the **Esc** key you can go back to the main menu.



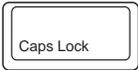
Break Key:

Press the **Shift** key and **Break** key simultaneously when you want to interrupt a program in **LOGO** while it is running.



Help Key:

When you are not sure about the answer, press the **Help** key. **Help** will give you hints and at the same time, you will lose a chance to answer a question. Press this key to receive hints in some of the activities. In activities like Synonyms or Antonyms, **Help** will show one of the letters in the answers as a hint. The **Help** key has slight variations among different activities, so for detailed usage, please refer to the description of the activities.



Caps Lock Key:

Press this key to make letters you type appear in capitals without having to press the **Shift** key each time. Press once to activate this key. Press it again to release it.



Repeat Key:

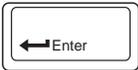
Press this key to repeat the instructions and the question (the unit will repeat the question if the question on the screen is only partially visible.)



Answer Key:

Press this key to find the correct answer to a question. You will not receive points if this key is pressed.

NOTE: In the 2-player mode the **Answer** key cannot be used during the first player's turn.



Enter Key:

Press this key after typing each answer so the unit registers your input.



Player Key:

Press this key to select the 1-player or 2-player mode in the activities that have a 2-player mode.



Level Key:

Press this key to select a level of difficulty in some of the activities. There are four levels with the first level being the easiest and the fourth level being the most difficult. Levels can be changed at any time during an activity.



Symbol Key:

Press the **Shift** key and the **Symbol** key together to see a symbol

menu that contains several pages of symbols. Press the

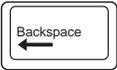


keys to select a symbol. Then press the **Enter** key or the left mouse button to confirm the selection.



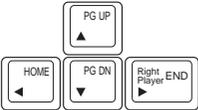
Print Screen Key:

Press the **SHIFT** key and the **Print Screen** key to print the current screen. An exact copy of the screen will be printed.



Backspace Key:

To correct an answer before it has been confirmed, press the **Backspace** key to delete the last entry.



Directional Keys:

These four keys will move the cursor up, down, left, and right.



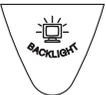
Space Bar:

Use this to insert a space.



Left Player/Right Player Keys:

A question is asked, the first person to press his or her player key will get the opportunity to answer the question first.

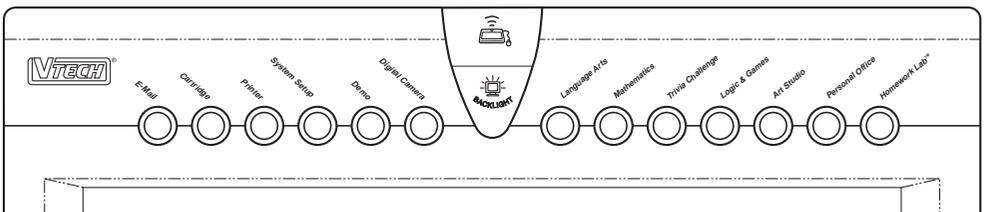


BACK LIGHT KEY

Press the key to turn ON/OFF the backlight.

CATEGORY BUTTONS

There are 71 activities (not including 6 system setup) in the **VTECH® Power Zone™ 2000** learning aid and they are divided into seven categories. Press any category button to go to the menu list of corresponding activities.



Category buttons:

Category buttons are available to go directly to the selected group activities for **Language Arts, Mathematics, Trivia Challenge, Logic & Games, Art Studio, Personal Office** and **Homework Lab™**.

System Setup



System Setup button:

Press this button and the system setup screen will be shown. For details in setting, please refer to System Setup page 29.

Demo



Demo button:

The **Demo** button is available at any time to demonstrate any of the learning aid's activities. The **Demo** button in Main Menu will demonstrate all activities and then return to the Main Menu. If the **Demo** button is pressed when a player is in an activity, it will demonstrate that particular activity. Once the demonstration is done, it will return to either the menu or the activity.

Printer



Printer button:

When the printer button is pressed, the unit will display the printer selection window. The player can press this button to change the printer. For details, please refer to Printer Setup.

Cartridge



Cartridge button:

When the cartridge button is pressed, the unit will run the activity(ies) on the cartridge. If a cartridge is not in the cartridge slot, the unit will display a message that a cartridge is not inserted.

NOTE: When inserting or removing a cartridge, or plugging in or removing the mouse, please make sure the unit is turned **OFF**.

E-Mail



E-Mail button:

With the **VTech®** e-mail cartridge, modem and VTech e-mail service (sold separately), a player can send and receive electronic mail. Please note that the **VTech®** e-mail service does not support the attachment of files to e-mail messages. For details, please refer to the e-mail cartridge and modem (sold separately).

To order the **VTech®** e-mail cartridge and modem, please call our Consumer Services Department at 1-800-521-2010.

Digital Camera



VTech® digital camera button:

With the **VTech®** digital camera (sold separately), a player can take pictures.

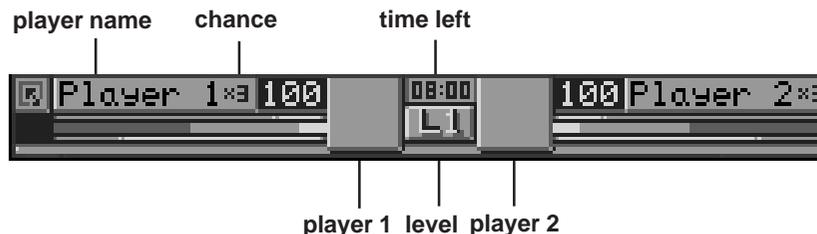
DESCRIPTION OF ACTIVITIES

ACTIVITIES WITH LEVELS AND 2-PLAYER MODE

ACTIVITY	LEVEL	2-PLAYER MODE
Word Challenge	1-4	YES
Comprehension	1-4	YES
Secret Word	1-4	YES
Grammar Quiz	1-4	YES
Parts of Speech	1-4	YES
Word Search	1-4	YES
Crossword	1-4	YES
Synonyms	1-4	YES
Antonyms	1-4	YES
Word Puzzle	1-4	YES
Sound Alikes	1-4	YES
Sentence Shuffle	1-4	YES
Creative Writing	NO	NO
All Mathematics (except magic 24)	1-4	YES
Magic 24	NO	YES
All Trivia challenge	1-4	YES
Robot Hunt	1-4	No
3D Race Rally	1-4	NO
3D Tic Tac Toe	1-4	YES
Treasure Hunt	1-4	NO
Disc Challenge	1-4	YES
3D Maze	1-4	NO
All Art Studio	NO	NO
All Personal Office	NO	NO
Data Pairs 1	NO	NO
Data Pairs 2	NO	YES
Test Trainer 1	NO	NO
Test Trainer 2	NO	YES

GENERAL DISPLAY

In most of the activities, you will see a display of the status information, as well as icons and a working window. The status information includes the player's name, the number of chances remaining and the score for each player. It also shows the level and the time left in the game.



LANGUAGE ARTS

WORD CHALLENGE

A meaning of a word will be displayed on the screen followed by three multiple choices. Determine the word with the given meaning, then use **Up/Down** key to choose the answer or use the mouse to answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

COMPREHENSION

A paragraph will first appear and then questions related to the paragraph with multiple choices will be given. Use **Up/Down** key to choose the answer or select the answer using the mouse. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

SECRET WORD

Guess the secret word by typing in the correct letters. Once you press **Enter** to confirm the word and it is not correct, a hint will be given. The hint includes a correct letter. There is no **Help** function but you get 20 chances to find the correct answer.

-  for a correct guess (both the letter and its position)
-  for an incorrect guess
-  means the letter is guessed correctly but in the wrong position

GRAMMAR QUIZ

A sentence will be displayed with one word missing. Three multiple choice answers will appear. Use **Up/Down** key to choose the answer or use the mouse to answer. Press the **Enter** key or the left mouse button for the answer that will make the sentence grammatically correct, or type in 1, 2 or 3 to answer directly.

PARTS OF SPEECH

A sentence will be displayed on the screen and the unit will ask you to identify the part of speech, such as a noun or a verb, based on the given question. Pick the best word for the answer using the mouse or the cursor control and press **Enter** key.

WORD SEARCH

This activity shows a 22 x 9 matrix with 10 words missing in the puzzle. You have to solve all 10 words in the puzzle. To locate a word use the arrow keys or the pointer to highlight the word that you want, and then press the **Enter** key or the left mouse button. You can select a word from a horizontal or vertical direction. To change the direction of the word you are selecting, use the  icon. The  icon enables you to switch back and forth between the horizontal and vertical position.

CROSSWORD

This activity shows a 16 x 8 grid with 10 words missing in the puzzle. You have to solve all 10 words based on the clues given. First choose a highlighted area where a word is missing and then press the **Enter** key or the left mouse button. The clue will then be provided. Input the correct word and then press the **Enter** key to proceed and repeat the steps stated above.

SYNONYMS

A word and a scrambled word will be shown. Rearrange the letters of the scrambled word to create a new word that has the same meaning as the given word.

ANTONYMS

A word and a scrambled word will be shown. Rearrange the letters of the scrambled word to create a new word that has the opposite meaning of the given word.

WORD PUZZLE

This activity shows a 16 x 8 grid. There are ten (10) words listed next to the grid that need to be correctly placed in the grid. You have to place all ten (10) words in the grid based on the simile given. First choose a highlighted area where a word is missing and then press the **Enter** key or the left mouse button. The clue will then be provided. Input the correct word and then press the **Enter** key to proceed and repeat the steps stated above.

SOUND ALIKES

A sentence will be displayed with one word missing. Two words with the same pronunciation will be given as choices. Select the word that fits the meaning of the sentence. Use **Up/Down** key or the mouse to choose the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1 or 2 to answer directly.

SENTENCE SHUFFLE

A sentence will be shown with its words in random order. You will be asked to reconstruct the sentence. To select a word, move the pointer to the desired word and press the left mouse button. To place the word where you want it, point the mouse in the space between the two words and click the left mouse button. Once you have completed the sentence, press the **Enter** key to confirm your answer.

CREATIVE WRITING

A list of writing topics and ideas will be displayed for the user. Once you select a topic, the activity will launch the Word Processor and you can start your creative writing. You can print your story when you have finished. (printer sold separately)

MATHEMATICS

MATH FUN

In levels one and two, a question of either addition, subtraction, multiplication or division will appear on the screen. Input the correct answer using the number keys and then press the **Enter** key. In level three and four, a written question that includes an addition, subtraction, multiplication, or division problem will be displayed. Choose the answer from multiple choices and then press the **Enter** key.

TIME OUT!

In the two lower levels, a question of time calculation will appear on the screen. Input the correct answer then press the **Enter** key. In the two higher levels, a written question about time calculation will appear. Choose the answer from multiple choices and then press the **Enter** key.

COMMON GROUND

A question will be shown and you need to determine the lowest common multiple. Input the correct answer and then press the **Enter** key to confirm your answer.

FACTOR REACTOR

A question will be shown and you need to determine the greatest common factor. Input the correct answer and then press the **Enter** key to confirm your answer.

COORDINATES

This activity shows a coordinate plane and you will be asked to give the coordinates of a point (points), or plot a point (points) with given coordinates. To input the coordinates of each point use the arrow keys or the **Up** or **Down** icons and then press the **Enter** key. To plot a point, use the cursor keys or the mouse to move the point to the area which you would like to select and then press the **Enter** key.

SUM IT UP

In the two lower levels, an addition problem will appear on the screen. Input the correct answer using the number keys and then press the **Enter** key. In the two higher levels, a written question about an addition problem will appear. Choose the answer from multiple choices and then press the **Enter** key.

MINUS MADNESS

In the two lower levels, a subtraction problem will appear on the screen. Input the correct answer using the number keys and then press the **Enter** key. In the two higher levels, a written question about a subtraction problem will appear. Choose the answer from multiple choices and then press the **Enter** key.

MULTIPLICATION

In the two lower levels, a multiplication problem will appear on the screen. Input the correct answer using the number keys and then press the **Enter** key. In the two higher levels, a written question about a multiplication problem will appear. Choose the answer from the multiple choices and then press the **Enter** key.

DIVISION

In the two lower levels, a division problem will appear on the screen. Input the correct answer using the number keys and then press the **Enter** key. In the two higher levels, a written question about a division problem will appear. Choose the answer from the multiple choices and then press the **Enter** key.

ALGEBRA ATTACK!

An algebra question will appear on the screen. Find the value of the unknown number (**X**) and input the correct answer by clicking the number icon on the number bar or typing in the number using the keyboard. Press the **Enter** key or click the  icon to confirm your answer. Press the  key to get a simplified Algebra function. By pressing the  key, you lose one chance to answer the question.

GEOMETRY

A 2-dimensional or 3-dimensional object appears and you will be asked to find the area, perimeter or volume of the object. Input the correct answer by clicking the number on the number bar or typing in the number using the keyboard. Press the **Enter** key or click the  icon to confirm your answer. Press the  key to show a formula. By pressing the  key, you lose one chance to answer the question.

GRAPH IT!

First a graph will appear and then a question will be asked related to the graph. Multiple choices are given and you can select the answer by pressing **Up/Down** key or you can use the mouse to select the correct answer and press the **Enter** key or the left mouse button, or type in 1, 2 or 3 to answer directly.

TIC TAC 18

This activity shows a 4 x 4 matrix and you have numbers from 1 to 8. You and the computer (or other player) take turns placing numbers into the matrix. Whoever can create a total of 18 in either a horizontal, vertical or diagonal with 4 numbers first wins the game. If neither player can create a total of 18, the game is a draw.

NOTE: One number can be used only once in a game.

MAGIC 24

4 numbers and 6 mathematics signs [+ - x ÷ ()] will appear. You are expected to use each number and a mathematics sign to create a total of 24. A number can be used only once, but a mathematics sign can be used many times.

THIS TO THAT

In the two lower levels, a question about converting units of measurement will appear. Input the correct answer and then press the **Enter** key. In the two higher levels, a written question about converting units of measurement will appear. Choose the correct answer from multiple choices and then press the **Enter** key.

FRACTION ACTION

In this activity, a question involving fractions will appear on the screen. Input the correct answer using the number keys and then press the **Enter** key. Press the **Help** key to simplify the fraction. By pressing the help key, you lose one chance to answer the question.

NUMBER PATTERNS

In this activity, you will see a sequence of numbers related in some way. You must figure out the pattern and input the answer using the number keys. Press the **Enter** key to confirm your answer.

MATH CHALLENGE

In this activity, the unit will challenge you with random questions from Time Out!, Sum It Up, Minus Madness, Multiplication, Division and This to That. You need to select the answer from multiple choice or type in 1, 2 or 3 for the answer. In all four levels, the questions will be in multiple choice format.

TRIVIA CHALLENGE

UNDERSEA LIFE

This challenging trivia game tests your knowledge of undersea life. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse to choose the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or typing in 1, 2 or 3 to answer directly.

ANIMAL LIFE

This challenging trivia game tests your knowledge of animal life. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse to choose the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

ENTERTAINMENT

This challenging trivia game tests your knowledge of TV shows, movies and music. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

MYSTERY EVENTS

This challenging trivia game tests your knowledge of a variety of mysterious and unexplained events. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

TECHNOLOGY

This challenging trivia game tests your knowledge of technology and inventions. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

SPACE DISCOVERY

This challenging trivia game tests your knowledge of space discovery and astronomy. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

GEOGRAPHY

This challenging trivia game tests your knowledge of geography. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

BIOLOGY

This challenging trivia game tests your knowledge of biology. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

KNOWLEDGE CHALLENGE

This game tests your knowledge of various trivia topics. You are asked a question and are given three answers to choose from. You can select your answer by pressing **Up/Down** key or by using the mouse for the correct answer. Press the **Enter** key or the left mouse button to confirm your answer, or type in 1, 2 or 3 to answer directly.

LOGIC & GAMES

ROBOT HUNT

The mission of this strategy game is to find and defeat your opponent's (the computer) robots before yours are found. First select a team. Next place your robots on the board. There are three small robots and two large robots for all levels. Press the right mouse button to flip the direction of a robot 90 degrees. There are three    along the lower right corner of the screen. Once you click the  icon, the computer will randomly place the robots on the board for you. Click the  button to put all the robots on game board back into the robot pool. Press the  button to confirm the arrangement of the robots and start the game. When the game starts, select a square within the grid by using the mouse or pressing the cursor keys. Click the left mouse key or press **Enter** key to attack. You can continue to attack if you hit your target. If you miss your target, it becomes the computer's turn. The game will end when all of your opponent's robots or your robots have been destroyed.

3D RACE RALLY

In this action game, the object is to drive along the track as fast as you can to win the race. First select a car by pressing the cursor key or click on the car directly. Confirm the selection by pressing the **Enter** key. Initially, the time limit is 50 seconds. However, as you drive through a checkpoint, extra time will be added. You must avoid colliding with various obstacles on the track. Also, weather conditions may make it hard to drive. Use the cursor keys to control the car. Press the **Up** key to increase the speed, the **Down** key to decrease the speed. If you want to turn the car to the left, press the **Left** key. Press the **Right** key to turn the car to the right.

3D TIC TAC TOE

In this strategy game, you can play either with a partner or against the computer.

First select a game piece by pressing the cursor keys or by clicking the   icon. Confirm your selection by pressing the **Enter** key or by clicking the icon. When the game starts, the screen will show a 3-dimensional board, and the player who will go first will be chosen randomly. Move the game pieces alternately with your opponent. The player who gets '3-in-a-row' in any direction first wins the game.

TREASURE HUNT

The computer will display a grid. The mission of this game is to find all of the treasure in the grid. The grid also contains enemies and bonus points. Select a tile on the grid to look for the treasure and then press the left mouse button. To find clues on how many treasures there are in a selected row or column, click the  icon. Doing so will tell you how many treasure pieces there are in that particular row. However, using a clue will also use up one chance.

DISC CHALLENGE

The computer will display a chessboard with two white tiles and two black tiles located in the middle. When it is the black tile's turn, you or the computer must place the black color tile in a location where there is at least one white tile in any direction between another black tile on the chessboard. If a player is not able to make a move, the turn will go back to the other player. Whoever gets the most tiles in his/her color on the chessboard will win the game.

For example:



3D MAZE

The object of this game is to teach the concept of direction and spatial relation. You have to escape from the 3-dimensional maze with the help of a 2-dimensional map within a set time limit.

ART STUDIO

CARD MAKER

The **VTECH® Power Zone™ 2000** learning aid has several built-in pictures for you to create your own greeting card for different occasions. You can add your own messages on the card to give to your friends and relatives.

To create a folded card:

- Choose a picture to be used on the card. Use the arrow keys to select the picture you like.
- Type in your text message.
- When finished, click the **PRINT CARD** icon to print the card. (printer sold separately)
- To create a new card, click the **NEW** icon.

PICTURE MAKER

This is a powerful graphic tool that can help you create pictures easily. You have access to a wide range of painting and graphic editing tools.

PERSONAL OFFICE

WORD PROCESSOR

The **VTECH® Power Zone™ 2000** learning product offers you one of the most important applications found in computers - word processor. With the word processor, documents can be created, edited, saved and printed. The word processor activity has six menu icons along the top of the screen. Each of these icons has a list of functions. They will give you a clear understanding of the primary functions of the word processor activity.

FILE

New	create a new file
Open	open a saved file
Save	save the current working file
Save As	save the file with a specific name
Delete	delete a file
Print	print the current file
Print Preview	take a preview of the file to print

New

New is the command to create a new file. Select **New** from the **FILE** menu icon and it will ask whether you want to save the current file. If you type “**Y**”, it will save the file. If you type “**N**”, It will create a new file.

Open

Open is the command used to retrieve an existing file. Select **Open** from the **FILE** menu and it will list out all the files. Select the file you want to retrieve and press the **Enter** key or the left mouse button. The selected file will then appear on the screen.

Save

Saving a file is a very important option in Word Processor because if you forget to save the file, you will not have the ability to retrieve the file and continue to work on it.

In order to save a file, select **Save** from the **FILE** menu and it will show a save box. The unit will prompt you with the file name. You need to type in a name and then press the **Enter** key to save the file or revise the name before pressing the **Enter** key to confirm. Please note that the file name should be no longer than 8 characters.

Save as

You can save the document under a different name.

Delete

When you no longer need a file, erasing it is a good idea. Select **Delete** from the **FILE** menu and it will show a delete box. Then select the cartridge icon to delete a file from the **RAM** cartridge or the main unit icon to delete a file from the main unit. After you select the source, it will list all the files. Select the file you want to delete and press the **Enter** key or the left mouse button to confirm. A message will ask you for confirmation. **ALERT!** When files are deleted, they will be gone permanently.

Print

In order to use the print feature, you must connect the unit to one of the printers which works with the **VTECH® Power Zone™ 2000** learning aid. Please see the list of compatible printers listed in the Printer Setup window. It is wise to save your file before printing. Select **Print** from the **FILE** menu and it will print the file.

Print Preview

Word Processor provides a way to view documents on the screen. Print Preview allows you to see how a document will look on a printed page.

EDIT

Cut	Cut a block of text
Paste	Paste a block of text
Copy	Copy a block of text
Find/Replace	Find and replace text

Most simple editing can be accomplished by using the **Backspace** key and the **Del/Ins** keys. When you need to change larger blocks of text, use the block editing features. The **EDIT** menu is for editing blocks of text.

Defining a Block

The first step in block editing is to define or mark a block of text. To define a block, place the cursor at the first character of the block you want to edit and hold down shift key button or the left mouse button and move the cursor point at the same time. When the cursor is at the end of the area you want to mark as a block, release the shift key or the left mouse button. After a block of text is defined, use one of the three block editing tools: cut block, paste block, copy block.

Cutting a Block

To cut a block of text, first define the block and select the **Cut** icon from the **EDIT** menu.

The block will be removed from its current position and will be placed in memory. You can paste the block in any location in the document.

Pasting a Block

After you have used the **Cut** or **Copy** option, move the cursor to the position where you want the block of text to be pasted. Select the **Paste** icon from the **EDIT** menu and the block of text you defined will be pasted to the selected location.

Copy a Block

To copy a block of text, first define the block and select the **Copy** icon from the **EDIT** menu. The block will be placed in memory. You can now add a copy of the block into any position within the text.

Find/Replace

You can use this command to find specific text and replace it with new text.

TOOLS

Spell checker

The spell checker checks a word to see if it is spelled correctly. To check the spelling of a word, move the cursor to the beginning of the word and select **Spell Check** from the **TOOLS** menu. If the word does not exist in the **Spell Check**

memory, you will be given a list of possible words to replace it. You are also able to select one of the suggested words for replacement. Press the **Esc** key to return to the document.

FORMAT

Tab

The unit will display this screen to let you set **Tab** spacing.

Fonts

The Word Processor provides two types of fonts: **Bold** or *Italic*.

Bullet

You can create or delete a bulleted list in the selected area or the current line.

Numbering

You can create or delete a numbered list in the selected area or the current line.

Alignment

You can align the selected text or current line to the left with the left margin. You can align the selected text or current line to the right with the right margin. You can align the selected text or current line to the center with the center margin.

INSERT

Page break

The Page break tool enables you to insert a page break manually.

Page no.

The Page no. tool enables you to insert page numbers.

Symbols

The Symbol tool gives you a list of useful characters that you can use in your documents. Select **Symbol** from the **Insert** menu icon to see a list of characters

and symbols for input. Press the     keys to locate a symbol and press the **Enter** key or the left mouse button to confirm. Press the **Esc** key to return to the document.

Picture

This allows you to insert a picture by picture's name.

Date

This allows you to insert the date.

Time

This allows you to insert the time.

HELP

The Help tool is a reference table for learning commonly used shortcuts.

Menu	Menu Item	Shortcut key
File	New	Ctrl + N
	Open	Ctrl + O
	Save	Ctrl + S
	Print	Ctrl + P
Edit	Cut	Ctrl + X
	Paste	Ctrl + V
	Copy	Ctrl + C
	Find/Replace	Ctrl + F
Format	Fonts	Ctrl + D
	Bold font	Ctrl + B
	Italic font	Ctrl + I
	Left alignment	Ctrl + L
	Center alignment	Ctrl + E
	Right alignment	Ctrl + R
Insert	Page Break	Ctrl + Enter
	Symbol	Ctrl + Y
	Picture	Ctrl + M
	Page number	Ctrl + K

TELEPHONE BOOK

This activity helps you keep track of personal information on your friends and relatives. The **Telephone Book** starts by showing the record. (sorted alphabetically by names) The **Telephone Book** activity has five menu icons  along the top left corner of the screen. Once the **Search** icon is clicked, the search window will pop up on the screen. The data can be searched by name and by telephone number. Click the **New** icon and the unit will create a blank record and go back to the Telephone Book screen. Click the **Edit** icon to edit the record such as name, telephone number, birthday or address. Also, you can turn the birthday alarm **ON/OFF** when the **Edit** icon is selected. To delete an unnecessary record, click the **Delete** icon, the unit will pop up a window to ask if you want to delete the record.

SCHEDULER

This activity keeps a full schedule for you and includes an alarm which can be turned **ON/OFF**.

Delete

Choose the **Delete** icon when you want to delete a record. You will be asked to confirm the deletion.

Delete All

Choose the **Delete** icon when you want to delete all the records of a particular date. You will be asked to confirm the deletion.

Date Search

This command lets you search for an existing record. You can search for a record by the date.

Text Search

This command lets you search for an existing record. You can search for a record using a specific word.

SPELL CHECKER

This activity is used to check the correct spelling of words. Type a word you want to check and press the Enter key to confirm. If the word is spelled correctly, the unit will advise you that the word is correct. If the word is not in the Spell Checker database, it will advise you that the word cannot be found or offer a list of suggested words.

CALENDAR

This activity gives a calendar between the year 1900 to 2099. The screen will show a monthly calendar and you can go directly to any monthly calendar between 1900 to 2099. Extra functions like search, holiday set and print are also available. The  icon is used to search for the date. The icon  is used to set any day as your holiday. The  icon is used to print out the current calendar. Once you input any information on a particular date, the program will display an indicator on that day to remind you. Click the day to see the details you entered for that day.

CONVERSION PAD

This activity offers you some basic unit conversions. First the screen will display the categories of the unit for you to choose such as speed, time or weight. In the next screen, you can input the value and convert the input value.

CALCULATOR

This is an eight-digit, fully functional calculator for addition, subtraction, multiplication and division. You can move the pointer to click on the calculator buttons or use the keys from the keyboard to perform a calculation. The Calculator can be used to determine the answer to some of the questions in the Mathematics activities by pressing the **Calculator** icon. You can return to the activity by clicking the **Return** icon. Be sure to press the **AC** button to clear the Calculator before each calculation.

LOGO

This activity '**LOGO**' lets you experience logo programming. You can learn more in other reference book.

LOGO is a programming language that can be used to teach your **PC** to do some new things. One thing **LOGO** can teach your **PC** is how to draw pictures. This system of drawing is called Turtle Graphics.

commands

Instructions to the Turtle are called commands. Each command begins with a key word telling the Turtle what to do. For example, "forward" is a command that tells the Turtle to move forward; "right" is a command that tells the Turtle to turn to the "right." Often, commands will require additional information such as how far forward the Turtle should go. For example, "forward 30" tells the Turtle to move forward 30 steps; "right 90" is a command that tells the Turtle to turn 90 degrees (a quarter turn) to the right. If additional information is required for a command, it must appear immediately after the command and separated from the command by a space.

In the home position, the Turtle, represented by a triangle, sits at the center of the screen pointing straight up. This location is indicated with the pair of numbers (0,0). The first number of this pair indicates how far left or right the Turtle is from the center of the screen; it is also called the x-coordinate. The second number indicates how far up or down the Turtle is from the center of the screen; it is also called the y-coordinate. For example, the pair (10, -5) indicates that the Turtle is 10 steps to the right and 5 steps below the center of the screen.

routines

Additional commands can be created by defining new **LOGO** routines. For example, here is a **LOGO** routine that could create a square:

to square

```
forward 30
right 90
forward 30
right 90
```

```
forward 30
right 90
forward 30
right 90
```

end

This routine contains a lot of repetition. Routines can be written more concisely using a repeat command:

```
to square : n
repeat 4 [forward 30 right 90]
```

end

The repeat command has two sets of additional information or input - the number indicating the number of times to repeat the command ("4") and the list of commands to be repeated ("forward 30 right 90"). Once this routine is defined, one need only to write "square" and **LOGO** will draw a 50-step square at the current Turtle location.

This routine can be further improved because as it is, it can draw squares of only one size. To enable it to draw squares of varying sizes, define the command with an input:

```
to square : n
repeat 4 [forward :n right 90]
```

end

This command contains additional information or input (":n") which indicates the variable size of the square. Once this routine is defined, one need only write "square 25" and **LOGO** will draw a 25-step square at the current Turtle location. "Square 50" will have **LOGO** draw a 50-step square, "square 100" will have **LOGO** draw a 100-step square, and so on.

A routine to draw an equilateral triangle is as follows:

```
to triangle :n
  right 30
  repeat 3 [forward :n right 120]
  left 30
```

end

After the routines for a square and a triangle have been defined, a routine to draw a simple house can be made from a square with a triangle on the top:

```
to house :n
  back :n
  square :n
  forward :n
  triangle :n
```

end

variables

LOGO can interpret a string of characters in four ways:

1) Numeric value

The strings "123" and "25.6" are recognized as numeric values.

2)Command

The strings "square" and "triangle," when created in the routines defined above, are recognized as commands.

3)Text

To print the word "house," if one writes print house, **LOGO** sees the word "house" as a command. To enable **LOGO** to treat the word "house" as text, there must be double quote marks placed immediately before it. It would be written as print "house."

4)Variable name

Placing a colon (:) before a word enables **LOGO** to read the word as a variable. In the example above, "forward :n" enables **LOGO** to read ":n" as a variable and use it as input to the command "forward."

1. Drawing instruction

forward (fd)	n	turtle goes forward N steps.
back (bk)	n	turtle goes back N steps.
left (lt)	n	rotate the turtle left (counterclockwise) N degrees, one step/unit(one unit = 22.5 degrees).
right (rt)	n	rotate the turtle right (clockwise) N degrees, one step/unit(one unit = 22.5 degrees).
setx	n	turtle goes to X = N coordinate.
sety	n	turtle goes to Y = N coordinate.
setxy	x,y	turtle goes to (x,y) coordinate.
setheading (seth)	n	turn the turtle N degrees (clockwise), one step/unit(one unit = 22.5 degrees).
setpc	n	set the pen color to N(N = 0 ~ 3).
setbg	n	set the background color to N(N = 0 ~ 3).
pencolor(pc)		get the current color of pen.
background(bg)		get the current background color.
penup (pu)		put the turtle's pen up. When the turtle moves, it does not draw a line.

pendown (pd)

put the turtle's pen down and draws a line when the turtle moves.(default status)

showturtle (st)
status)

make the turtle shape visible.(default

hideturtle (ht)

make the turtle shape invisible

home

screen, points the turtle straight up the screen.
the state.

move the turtle to the center of the **(HEADING 0)**, but does not clear graphics screen or alter the pen

clearscreen (cs)

erase the graphics screen, returns the turtle to the center of the screen, and sets the turtle's heading to pen state or screen colors.

0.**CLEARSCREEN** does not affect the

xcor

output the X coordinate of the turtle

ycor

output the Y coordinate of the turtle

heading

output the turtle's degree

turtlestate (ts)

output the turtle's property

wrap

the graphics window no matter how large a movement command is given.
window

WRAP makes the turtle remain inside large a movement command is Any time the turtle moves off the borders, it wraps around the window and reappears on the opposite edge.

window

WINDOW removes the boundaries from the turtle's **field** of movement. If the turtle moves beyond the borders of the graphics window, it continues to move, but **cannot** be seen.

fence

FENCE prevents the turtle from moving beyond the edge of the graphics window. If you try to move the turtle off the window, it does not move and Logo displays a message.

2. Mathematics instruction

abs

output the absolute value of its input.

arctan

output the arctangent of its input.

cos

output the cosine of its input.

expn

raised

calculate the natural base e (2.7183. . .) to the power specified by its input.

int	output the integer portion of its input by removing the decimal portion, if any. No rounding occurs.
log	output the natural logarithm of its input.
log10	output the base 10 logarithm of its input.
product	output the product of its inputs.
quotient	output the result of dividing the first input by the second input.
random	output a randomly selected number from 1 through its input.
remainder	output an integer which is the remainder of dividing the first input by the second.
round	output the number rounded to the nearest integer.
sin	output the sine of its input.
sqrt	output the square root of its input.
sum	output the result of adding its inputs.

3. Word & List instruction

first	output the first element of its input.
last	output the last element of its input.
butfirst (bf))butfirst	output all but the first element of its input
butlast (bl)	output all but the last element of its input
word	output a word made up of its inputs.
sentence (se)	output a list made up of its inputs.
list	output a list composed of its inputs.
firstput (fput)	output an object which is created by putting the first input at the beginning of the second input.
lastput (lput)	output a new object which is created by placing the first input at the end of the second input.

4. Other instruction

edit	enter the LOGO editor and opens an edit window.
load	transfer the contents of the file specified by its input from the disk to the workspace.
save	save the contents of the workspace to a file on the disk.
open	open a device. If the specified file or device does not exist, OPEN outputs FALSE .
close	close a device.
print	print its inputs to the output screen.
type	TYPE prints its inputs on the screen, and the prompt appears after the last character printed.
cleartext (ct)	clear output window content.
pots	print the titles of all user-defined procedures. POTS stands for "Print Out Titles".
erase (er)	remove the definition of its input from the workspace. The input to ERASE must be a procedure name.
eraseall (erall)	remove all procedures and variables from the workspace.

5. Flow control instruction

and:

AND accepts one or more inputs which must be either **TRUE** or **FALSE**. **AND** outputs **TRUE** if all of its inputs are true; otherwise, it outputs **FALSE**.

not:

NOT outputs **TRUE** if its input is false; otherwise, it outputs **FALSE**.

or:

OR outputs **FALSE** if all of its inputs are false; otherwise, it outputs **TRUE**. **OR** accepts one or more inputs which must be either **TRUE** or **FALSE**.

if... then... else...	IF runs the instructions if the result of the conditional statement (if ...) is TRUE . If the conditional statement is FALSE , nothing is done unless ELSE follows the instructions.
label...go	LABEL marks the beginning of a GO-LABEL loop. Its input must match the input of the corresponding GO command. Used in conjunction with GO .
repeat:	REPEAT runs the list of instructions in the second input the number of times indicated by its first input. The number input to REPEAT can be any positive number. If the number is not an integer, its fractional portion is ignored. REPEAT commands can be nested, or placed, inside other REPEAT commands.
while:	WHILE evaluates its first input and runs the LOGO command(s) in its second input if the value of the first input is TRUE . WHILE will continue this process until the value of the first input is FALSE .
to... end	define function or procedure, then be called.
make:	MAKE defines a variable using the name of the first input and assigns the second input as the value of that variable. Once you have created the variable, you can get its contents by using :name. Think of the colon (:) as “the value of name.”
stop:	STOP makes Logo halt execution of the current procedure and return to the calling procedure.

LOGO BEGINNER

This activity contains **LOGO** sample program for beginners.

LOGO INTERMEDIATE

This activity contains **LOGO** sample program for intermediate level.

LOGO ADVANCED

This activity contains **LOGO** sample program for advanced level.

MONEY MANAGER

This activity teaches you the basics of money management. With Money Manager, money transactions can be edited and deleted. Money Manager has three menu icons  along the top left corner of the screen. You can edit a record by selecting the **EDIT** command. Also you can delete the record by selecting the **Delete** command. The screen will display a window to confirm deleting the record.

HOMework LAB™

DATA PAIRS 1

In this activity you will be given the flexibility to input pairs of data. With these data pairs, you can take a quiz on information stored in Data Pairs 2.

DATA PAIRS 2

In this activity you can quiz yourself on the stored data pairs you inputted in Data Pairs 1.

TEST TRAINER 1

In this activity you are allowed to input your own questions and answers.

TEST TRAINER 2

In this activity you can quiz yourself on the stored questions you inputted in Test Trainer 1.

SYSTEM SETUP

FILE CABINET

File Cabinet allows you to view files on the main unit memory status. Functions like copy file, move file, rename file, delete file and format memory are also available.

QUICK TAG

Quick Tag allows you to manually mark and retrieve any question so you can review it later.

SOUND EFFECT

Sound Effect allows you to turn sound effects **ON** or **OFF** as well as select a sound effect for different events.

BACKGROUND MUSIC

In many activities, you may hear background music while playing a game. You may turn the background music **ON** or **OFF** by selecting the **ON/OFF** icon.

DATE & TIME

Date & Time allows you to set the time or set the alarm **ON** or **OFF** by selecting the **ON/OFF** icon.

SCORING STATISTICS

This setting provides a scoring statistics report for you to review in graphics or text.

PRINTER SETUP

There are a number of printers that the **VTECH® Power Zone™ 2000** learning aid is compatible with. **Printer Setup** allows you to select any one of the printers that the **VTECH® Power Zone™ 2000** supports.

- NOTE:**
- 1). The **VTECH® Power Zone™ 2000** learning aid may also work with other models from the manufacturers listed above by selecting one of the Generic printers, but the unit has not been tested with these printers.
 - 2). Many printers can be configured to work like a different model. The **VTECH® Power Zone™ 2000** learning aid can also be used with printers that are set up to work like the printers listed above. Please refer to your printer manual for different configurations.

TROUBLESHOOTING FOR PRINTER ERROR

When a Printer Error message appears, you may have encountered one or more of the following errors:

1. The power cable is not plugged into the electrical outlet properly.
2. The printer cable is not securely connected between the printer and the unit.
3. The printer is not turned **ON**.
4. The paper has jammed in the printer.
5. The printer has run out of paper.
6. The paper did not feed in time.

Please check for these faults. Once you have solved the problem, reset the printer or follow the Printer Connection instructions in the Getting Started section of this manual to try printing again. If you have any other problems with your printer, please refer to your printer's manual for details.

TOOLS

Select tools and you are able to choose the following items:

GENERAL

Several settings are available in this section, including:

- **Personal Information**

This lets you enter your personal information such as name, telephone, address, and birthday.

- **Number Entry**

This allows you to set the number input direction in mathematics and games.

- **Date Format**

This allows you to select the date format.

- **Start-Up Preference**

This allows you to set your start-up message when you turn on the unit.

DISPLAY

Several settings are available in this section, including:

- **Screen Saver**

When there is no input for a while, an animated picture will be shown and move around on the screen. You may select a type of screen saver and set the time to start the screen saver.

- **Bubble**

This allows you to set the bubble text **ON** or **OFF** by clicking the **ON/OFF** icon.

- **Mouse Pointer**

This allows you to select a different type of mouse pointer.

- **Message Scroll Speed**

This allows you to adjust the message scroll speed in the unit.

HOW TO USE AN EXPANSION CARTRIDGE

The **VTECH® Power Zone™ 2000** learning aid offers optional expansion cartridges.

To use a cartridge, follow these steps:

1. Turn the unit **OFF**.

2. Insert a cartridge into the slot located on the front of the unit with the label facing up. You should feel the cartridge click into place.
3. Turn the unit **ON**.
4. Press the cartridge button on the keyboard and the cartridge activities can be accessed.

NOTE: For information on purchasing cartridges, call our Consumer Services Department at 1-800-521-2010 in the U.S. or 1-800-267-7377 in Canada. A service representative will be happy to help you.

ACTIVITY CARTRIDGES

FOREIGN LANGUAGES

GERMAN TRANSLATOR

This activity will help you learn German phrases and vocabulary. You will be introduced to simple German words and phrases.

GERMAN TESTER

In this activity, you will be tested on the German words and phrases that you've learned in the German Translator activity.

FRENCH TRANSLATOR

This activity will help you learn French phrases and vocabulary. You will be introduced to simple French words and phrases.

FRENCH TESTER

In this activity, you will be tested on the French words and phrases that you've learned in the French Translator activity.

SPANISH TRANSLATOR

This activity will help you learn Spanish phrases and vocabulary. You will be introduced to simple Spanish words and phrases.

SPANISH TESTER

In this activity, you will be tested on the Spanish words and phrases that you've learned in the Spanish Translator activity.

TYPING CHALLENGE

The unit will display a paragraph. Begin typing the letters displayed in the paragraph and a timer will start counting at the same time. Once you have finished typing the paragraph, the unit will tell you the speed and accuracy of your typing.

SCORING

The following table lists how scoring is done for each of the activities that keep score in the **VTECH® Power Zone™ 2000**.

NOTE: The following activities do not have scoring or a 2-player mode.

Creative Writing	Conversion Pad
Card Maker	Calculator
Picture Maker	LOGO
Word Processor	LOGO Beginner
Telephone Book	LOGO Intermediate
Scheduler	LOGO Advanced
Spell Checker	Money Manager
Calendar	

SCORING CODE

Code	1-Player Mod	2-Player Mode
1	Question per round 5 Correct answer on 1st try 20 Correct answer on 2nd try 10 Correct answer on 3rd try 5	Question per round 5 Starting Score 100 Correct answer 1st player 20 2nd player 10 Wrong answer 1st player -20 2nd player -10
2	Words per round 10 Correct answer 10	
3	$\text{accuracy} = \frac{\text{corrected}}{\text{total}} \times 100\%$ $\text{speed} = \frac{\text{letters}}{\text{time(seconds)}} \times \frac{60 \text{ seconds/minute}}{6 \text{ letters/word}}$	

VTECH® Power Zone™ 2000 ACTIVITIES:

Activity	Scoring Code
Word Challenge	1
Comprehension	1
Secret Word	2
Grammar Quiz	1
Parts of Speech	1
Word Search	2
Crossword	2
Synonyms	1
Antonyms	1
Word Puzzle	2
Sound Alikes	1
Sentence Shuffle	1
Creative Writing	NO
All mathematics (except: Tic Tac 18)	1
All Trivia Challenge	1
Robot Hunt	NO
3D Race Rally	NO
3D Tic Tac Toe	NO
Treasure Hunt	NO
Disc Challenge	NO
3D Maze	NO
All Art Studio	NO
All Personal Office	NO
Homework Lab™	1
Foreign Language	1
Typing Challenge	3

CARE AND MAINTENANCE

1. Keep the unit clean by wiping it with a slightly damp cloth.
2. Keep the unit out of direct sunlight and away from direct sources of heat.
3. Remove batteries when the unit will not be in use for a long period.
4. Do not drop the unit on hard surfaces or try to dismantle it.
5. Do not immerse the unit in water or get the unit wet.

IMPORTANT NOT:

Creating and developing electronic learning aids is accompanied by a responsibility that we at **VTECH**[®] take very seriously. We make every effort to ensure the accuracy of the information that forms the value of our products. However, errors sometimes can occur. It is important for us to know that we stand behind our products and encourage you to call our Consumer Services Department at 1-800-521-2010 in the U.S. or 1-800-267-7377 in Canada with any problems and/or suggestions that you might have. A service representative will be happy to help you.

NOTE:

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, it may cause interference to radio and television reception. It has been type tested and found to comply within the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- reorient the receiving antenna
- relocate this product with respect to the receiver
- move this product away from the receiver