## Monkey Business"

Thinking Strategies Series:
Logical Reasoning
Ages 8 \& Up


## Monkey Business

How to load it.
How to use it.
How to learn
from it.


## All About It

You'll just love monkeying around with this exciting sequencing challenge! A stack of monkeys are hungry for a juicy apple. Move them one-by-one, and then restack them in the same order under the apple to be picked. The challenge is ...you can only move the top monkey in the stack, and you can only stack a smaller monkey on top of a larger monkey. Stack and restack, order and reorder to reach the apple. Try to do it in the fewest moves possible!

## Your Goal

Move a stack of monkeys one-by-one and restack them in the same order under an apple.
Now get ready to solve it.

## How to Load It <br> If you are using an Apple II, II + , IIe or IIc:

1. Insert the disk into the disk drive making sure the label of the disk is facing up and towards you.
2. Switch on the computer and monitor. The program will load automatically.
3. If the computer is already on, do the following for whatever system you're using: For Apple II, press the RESET key.
For Apple IIe or IIc, hold down the open apple, the CONTROL key and press the RESET key simultaneously.

If you are using a Commodore 64:

1. Insert the disk into the disk drive making sure the label of the disk is facing up and towards you.
2. Switch on the computer, disk drive and monitor.
3. The screen will display the word READY.
4. Type LOAD "PANDA", 8, 1 .
5. Press the RETURN key. The program will take several minutes to load. Follow the directions on the screen to reach the options screen.

## How to Use It

1. If you are using an Apple IIe or IIc, make sure the CAPS/LOCK key is depressed before you begin.

## 2. Select options:

A. Sound-When the screen reads

DO YOU WANT SOUND?, do either of the following:
Press $Y$ key to hear all sound effects. Press $\mathbb{N}$ key to turn off all sound effects.
B. Directions-When the screen reads DO YOU WANT DIRECTIONS?, do either of the following:
Press $Y$ key to see directions.
Press $\mathbf{N}$ key to not see directions.
C. Level of play-The difficulty level is based on the number of monkeys in a stack. The more monkeys, the more difficult the play. Select from:
EASIEST - Press number 1 key to play with three monkeys.

MEDIUM DIFFICULTY - Press 2 key to play with four monkeys. MOST DIFFICULT - Press 3 key to play with five monkeys.
D. To change the level at any time or to quit altogether, do the following:
Apple: Press the ESC key.
Commodore: Press the F7 key.
IMPORTANT: There are two apples for the monkeys to reach on every level of play. It does not matter which apple is "picked" first, but both must be reached to solve the puzzle.
3. How to move a monkey: Three number keys 1, 2 and 3 on the keyboard match three numbers on the screen. See Figure 1 for their location. To move a monkey, press two number keys. Here's how:
A. First, press the number key that matches the number under the monkey you wish to move.
B. Then, press the number key that matches the number under the place where you wish to move the monkey. NOTE: Your two-number entry is always recorded on the screen in the MOVE BLOCK. See Figure 1 for the location.

C. You can erase your first entry by pressing the same number again. For example, if you pressed 1 but really wanted 2 , press 1 again and your first entry will be cancelled.
4. Important movement rules:
A. You can only move one monkey at a time.
B. You can only move the top monkey in a stack.
C. You can only move a smaller monkey on top of a larger monkey.
5. Continue to move monkeys: Stack and restack them until they are in their starting position order right under the apple. When you do this, the top monkey picks the apple.
6. Another apple - another challenge: After one apple is picked, stack and restack the monkeys again to reach the second apple.
7. Solving it: When both apples have been picked, you have solved the sequencing puzzle.
8. Your score: The number of moves it took you to stack the monkeys to reach both apples is your score. Your score will automatically appear on the screen after the words NUMBER OF MOVES. Each time you play, try to receive a lower score.

## 9. To play again:

Choose one of the following:
Press number 1 key to try the same level of play again.
Press number 2 key to try another level of play.
Press number 3 to Quit.

## How to Learn from It

Monkey Business ${ }^{\mathrm{TM}}$ will help develop the following problem-solving strategies:

- Analyzing patterns
- Predicting outcomes
- Scanning for clues
- Experimenting with solutions
- Redefining problems
- Determining directional and positional relationships
Problem-solving strategies apply to all school subjects and generate life-long learning skills. Development of such highlevel, non-verbal thinking leads to greater understanding, increased awareness, and expanded powers of creativity.


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#### Abstract

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## Monkey Business"

## Develops problem-solving skills that are critical to success in math and reading.

These monkeys are in business to educate. And they're doing that by developing the problem-solving skills of learners from ages eight through adult. Challenge yourself to this exercise in deduction and observation. Stacking these monkeys gives you a towering advantage in math and reading skills.


All stacked up? Good. Now go to the next apple. Want to bite off a bigger challenge? Try stacking more monkeys.

There's an apple in the tree And what monkeys see, monkeys want. How about helping out? Just stack the monkeys so they can reach the apple. But remember, a big monkey would never think of sitting on a little monkey.

