

# MICKEY'S SPACE ADVENTURE

## APPLE COMPUTER CHALLENGE ACTIVITY 1

NAME \_\_\_\_\_ DATE \_\_\_\_\_

Our solar system is a very large place! Enter this program. Then "travel" to the planets. How long would it take you to get to each planet?

```
10 RANGE = 0
20 PRINT : PRINT : PRINT "WHICH PLANET DO YOU WANT TO TRAVEL TO?"
30 INPUT PLANET$
40 IF PL$ = "MERCURY" THEN RANGE = 46500000
50 IF PL$ = "VENUS" THEN RANGE = 23250000
60 IF PL$ = "MARS" THEN RANGE = 46530000
70 IF PL$ = "JUPITER" THEN RANGE = 372000000
80 IF PL$ = "SATURN" THEN RANGE = 837000000
90 IF PL$ = "URANUS" THEN RANGE = 1674000000
100 IF PL$ = "NEPTUNE" THEN RANGE = 2697000000
110 IF PL$ = "PLUTO" THEN RANGE = 2627250000
120 IF RANGE = 0 THEN 10
130 PRINT : PRINT "HOW FAST DO YOU WANT TO TRAVEL?"
140 PRINT : INPUT " (IN MILES PER HOUR) ->" ; MPH
150 TIME = INT (RANGE / MPH) : IF TIME > 72 THEN TIME$ = " DAYS" : TIME = INT
    (TIME / 24) : GOTO 170
160 TIME$ = " HOURS"
170 PRINT : PRINT "AT A SPEED OF " ; MPH ; " MILES AN HOUR, IT"
180 PRINT : PRINT "WOULD TAKE YOU MORE THAN " ; TIME ; TIME$
190 PRINT : PRINT "TO REACH " ; PL$ ; "." : GOTO 10
```



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## APPLE COMPUTER CHALLENGE ACTIVITY 2

NAME \_\_\_\_\_ DATE \_\_\_\_\_

Because the force of gravity varies on each planet in our solar system, your weight would be different on each planet. Enter this program. You will see how much you would weigh on each planet.

```
10 WEIGHT = 0
20 PRINT " WHICH PLANET DO YOU WANT TO WEIGH": PRINT "YOURSELF ON?"
30 INPUT PLANET$
40 IF PL$ = "MERCURY" THEN WEIGHT = .37
50 IF PL$ = "VENUS" THEN WEIGHT = .89
60 IF PL$ = "MARS" THEN WEIGHT = .38
70 IF PL$ = "JUPITER" THEN WEIGHT = 2.65
80 IF PL$ = "SATURN" THEN WEIGHT = 1.14
90 IF PL$ = "URANUS" THEN WEIGHT = .96
100 IF PL$ = "NEPTUNE" THEN WEIGHT = 1.53
110 IF PL$ = "PLUTO" THEN WEIGHT = .12
120 IF WEIGHT = 0 THEN 10
130 PRINT "HOW MUCH DO YOU WEIGH?"
140 INPUT " (IN POUNDS) ->";LBS
150 WEIGHT = INT (WEIGHT * LBS)
160 PRINT "ON THE PLANET ";PL$;" YOU WOULD"
170 PRINT "WEIGH ABOUT ";WEIGHT;" POUNDS.": GOTO 10
```



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## APPLE COMPUTER CHALLENGE ACTIVITY 3

NAME \_\_\_\_\_ DATE \_\_\_\_\_

Do you know all the compass directions? Enter this program. After playing for a while, you will be an expert!

```
10 TEXT : HCOLOR= 3
20 HGR :DIR = INT ( RND (1) * 9): IF DIR < 1 THEN 20
30 ON DIR GOSUB 80,90,100,110,120,130,140,150
40 PRINT "WHAT DIRECTION IS THE COMPASS POINTING?"
50 INPUT DIR$: IF DIR$ = AN$ THEN PRINT "THAT'S RIGHT!!": GOTO 70
60 PRINT "WRONG, THE COMPASS IS POINTING ";AN$
70 PRINT "PRESS A KEY...": GET G$: GOTO 20
80 HPLOT 135,100 TO 135,50 TO 130,55 TO 140,55 TO 135,50:AN$ = "NORTH": RETURN
90 HPLOT 100,75 TO 160,75 TO 155,70 TO 155,80 TO 160,75:AN$ = "EAST": RETURN
100 HPLOT 135,50 TO 135,100 TO 130,95 TO 140,95 TO 135,100:AN$ = "SOUTH":
    RETURN
110 HPLOT 160,75 TO 100,75 TO 105,70 TO 105,80 TO 100,75:AN$ = "WEST": RETURN
120 HPLOT 100,100 TO 150,50 TO 145,50 TO 150,55 TO 150,50:AN$ = "NORTHEAS
    T": RETURN
130 HPLOT 100,50 TO 150,100 TO 145,100 TO 150,95 TO 150,100:AN$ = "SOUTHE
    AST": RETURN
140 HPLOT 150,50 TO 100,100 TO 100,95 TO 105,100 TO 100,100:AN$ = "SOUTHW
    EST": RETURN
150 HPLOT 150,100 TO 100,50 TO 100,55 TO 105,50 TO 100,50:AN$ = "NORTHWES
    T": RETURN
```

