Chapter 2 Lights On—Lights Off Partners\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

WAM

**Questions**

1. What is a microcontroller?

2. Is the BASIC Stamp a microcontroller, or does it contain one?

3. What clues would you look for to figure out whether or not an appliance like a

clock radio or a cell phone contains a microcontroller?

4. What is the purpose of the serial cable?

5. When the BASIC Stamp sends a character to your PC/laptop, what numbers are

used to send the message through the serial cable?

6. What should you do between the time you have entered your program into the

BASIC Stamp Editor and the time you run the program?

7. What is the name of the window that displays messages sent from the BASIC

Stamp to your PC/laptop?

8. What does an apostrophe at the beginning of a line of PBASIC program code

signify?

9. What PBASIC commands did you learn in this chapter?

10. Let’s say you want to take a break from your BASIC Stamp project to go get a

snack, or maybe you want to take a longer break and return to the project in a

couple days. What should you always do before you take your break?

**Exercises**

1. Explain what you can do with each PBASIC command you learned in this

chapter. Record each command in your log.

2. Explain what would happen if you took all the **CR** control characters out of the

**DEBUG** commands below and write down how it would look in the Debug

Terminal.

DEBUG "Hello, it's me, your BASIC Stamp!"

DEBUG CR, "What's 7 X 11?"

DEBUG CR, "The answer is: "

3. Explain what the asterisk does in this command:

DEBUG DEC 7 \* 11

4. Guess what the Debug Terminal would display if you ran this command:

DEBUG DEC 7 + 11

5. There is a problem with these two commands. When you run the code, the

numbers they display are stuck together so that it looks like one large number

instead of two small ones. Modify these two commands so that the answers

appear on different lines in the Debug Terminal.

DEBUG DEC 7 \* 11

DEBUG DEC 7 + 11