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Programming for Beginners Part 3

20.4

<u>Directions</u>: Go to http://www.programmingbasics.org/en/beginner/while.html and click Start Normal Version. Read along and fill the blanks in as you work through the different lesson on this site.

| While: Loops and Repeating things To make a computer do something more than one time you will need to use a command. | | | |
|---|--|--|--|
| If a computer keeps doing the same again and again forever than it is called an loop. | | | |
| Write the commands to make an infinite loop to flatter your partner: | | | |
| Have your partner watch your flattering loop and write their initials if it works on the line | | | |
| What are loops are useful for? | | | |
| Usually, you don't want the computer to repeat something | | | |
| In Javascript, there is an instruction called " " | | | |
| It stops things when a computer sees the break instruction. | | | |
| You can also use break to a loop when something important happens. | | | |
| Random Numbers and Choose Javascript has a command called "random" for making random like rolling a | | | |
| With the random command, you must give a number between the | | | |
| Javascript will then give you a number between 1 and the number you gave. | | | |
| If you type "show(random(4));" what are the possible numbers the program could give you? | | | |
| Random Number Practice: Write a program to play Rock, Paper, Scissors three times. | | | |
| STOP: Copy the code from your program area and paste it here. | | | |

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Have your partner play your game and write their initials if it works on the line_____

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| Bonus: if you can make the computer keep score show your | or teacher and receive 10 points on this worksheet. | | |
| STOP: Copy the code from your program area and paste it here. | | | |
| | | | |
| Have your partner play your game and write their initials if | f it works on the line | | |
| FSM: The finite state machine A finite state machine is one way to programs | us. | | |
| A FSM is made up of two things. | | | |
| 1. Some writing about what's It has some | e arrows that show different you can mak | æ. | |
| 2. You should make a choice and follow the | | | |
| FSMs are good for making and | | | |
| | | | |
| FSM: The finite state machine Practice: Try writing some commands to get the computer to have you explore the rooms of the house. | | | |
| STOP: Copy the code from your program area and | d paste it here. | | |
| | | | |
| Have your partner play your game and write their initials if | f it works on the line | | |
| Extra credit: take what you have learned and make a simple | e scavenger hunt game. | | |
| Have your teacher play your game and write their initials if | f it works on the line | | |

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